

GOVERNORS OF ARMAGH OBSERVATORY AND PLANETARIUM

Employment Application Form

EUNAWA Project Manager (European Universe Awareness)

Please complete all sections of the form in full and return it by the specified closing date together with a full curriculum vitae, a statement of education and outreach/research interests and a summary of relevant experience and publications, to: The Administrator, Armagh Observatory, College Hill, Armagh, BT61 9DG, Northern Ireland, UK.

1. Surname: Other Names:

Address

.....

.....

.....

Postcode:

Tel (Home):

Tel (Work):

Tel (Mob):

Fax (Work):

E-mail:

Other Contact:

2. Degrees or equivalent qualifications awarded and membership of professional bodies (continue on separate sheet if necessary):

University or Professional Body	Dates	Degree or Qualification
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3. Present or most recent employment, and full previous employment details (continue on separate sheet if necessary):

Name and Address of Employer	Position	Dates	
		From	To

Current Salary:

Period of Notice Required:

4. **Description of position in organization and principal duties in present or most recent employment (continue on separate sheet if necessary):**

5. **References.** Give the name, title and address of each referee, and the capacity in which you are known to them. It is your responsibility to ensure that at least two and no more than three references are submitted to the Observatory by the closing date for applications.

1.	2.	3.
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.....
.....
e-mail:.....	e-mail	e-mail
Tel:	Tel:	Tel:
FAX:	FAX:	FAX:
Capacity:	Capacity	Capacity

6. Summary of principal accomplishments and experience relevant to the post. Include participation in projects of an astronomical, educational or technical nature, full details of your experience in providing science outreach (e.g. sessions presented, numbers of participants, the form the outreach took, age range and who else was involved etc.), and evidence of any further key project skills as set out in the Job Information (continue on a separate sheet if necessary):

7. Programming and software experience, e.g. website development software, languages such as FORTRAN, IDL etc., office software, specific codes:

8. Project management experience, including experience of managing or supervising others:

9. Please summarize how you believe your skills and experience align with the requirements for the post and your future career plans (continue on a separate sheet if necessary):

10. Please provide information on any other skills, experience, activities and interests which you believe may be relevant to your application:

11. I confirm that the information provided on this form is correct and I understand that any misrepresentation or omission may render me liable to dismissal if engaged. If offered an appointment, I agree to undergo a pre-employment medical examination if required. I understand that I will be required to provide documentary proof of all qualifications. By signing and returning this application form, I also consent to the Governors of the Armagh Observatory and Planetarium using and keeping any information about me, including information provided by me and by third parties such as referees.

Signature:

Date:

GOVERNORS OF ARMAGH OBSERVATORY AND PLANETARIUM

Consent to AccessNI Enhanced Disclosure Check Form

Please note that this Form must be returned with your application.

The Form is regarded as part of your application and failure to complete and return it will result in disqualification.

CONFIDENTIAL

INFORMATION ABOUT AND CONSENT TO ACCESSNI ENHANCED DISCLOSURE CHECK BY APPLICANTS FOR POSTS INVOLVING WORK WITH CHILDREN AND VULNERABLE ADULTS.

You have applied for a position that is governed by Safeguarding Vulnerable Groups (Northern Ireland) Order 2007. Before appointing anyone to such a post, it is our policy to ask for an enhanced disclosure check to be carried out by AccessNI. This check is to make sure that individuals who might be a risk to children and vulnerable adults are not appointed.

1. Do you have any prosecutions pending or have you ever been convicted at a court or cautioned by the police for any offence?

Delete as appropriate: YES / NO

If 'YES', please list below details of all pending prosecutions, convictions, cautions, or bind-over orders. Give as much information as you can, including if possible the offence, the approximate date of the court hearing and the court that dealt with the matter. (If necessary, continue on a separate sheet.)

(Please continue overleaf)

2. Have you ever been the subject of an Adult or Child Abuse investigation?

Delete as appropriate: YES / NO

If 'YES', please list full details below. If possible, please provide the approximate date(s).

NAME:

POSITION APPLIED FOR:

ANY SURNAME PREVIOUSLY KNOWN BY:

PRESENT ADDRESS:
.....

ALL PREVIOUS ADDRESSES (Within the last five years):

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DATE OF BIRTH

PLACE OF BIRTH

I understand that an AccessNI Enhanced Disclosure Check (as specified above) must be carried out before an offer of appointment can be confirmed. I am aware that spent convictions may be disclosed. I declare that the information I have given is accurate and I consent to the check being made.

Signature:

Date:

GOVERNORS OF ARMAGH OBSERVATORY AND PLANETARIUM

Equal Opportunities Monitoring Form

Please note that this Form must be returned with your application.

The Form is regarded as part of your application and failure to complete and return it will result in disqualification.

POST

Position Applied For	
For Official Use Only	

It is the policy of the Governors of the Armagh Observatory and Planetarium to ensure that all eligible persons have equal opportunities for employment and advancement in the Armagh Observatory and Planetarium on the basis of their ability, qualifications and aptitude. The Governors of the Armagh Observatory and Planetarium select those suitable for appointment solely on the basis of merit without regard to an individual's religious belief, political opinion, trade union membership, gender, marital status, sexual orientation, age, disability, race, colour or ethnic origin. In order to ensure that the equal opportunity policy of the Governors of the Armagh Observatory and Planetarium is effectively implemented, applications for employment are monitored in terms of gender and Northern Ireland community background.

GENDER (Please tick as appropriate)

Male	Female

NORTHERN IRELAND COMMUNITY BACKGROUND

The Fair Employment and Treatment (Northern Ireland) Order 1998 ("the Order") outlaws discrimination on the basis of religious belief or political opinion. The information below is required in connection with the requirements of the Order. The use and confidentiality of community background information is protected by the Order. It will be used only for monitoring the effectiveness of the equal opportunities policy of the Governors and to comply with statutory obligations of the Order. Please indicate your Northern Ireland community background by ticking one of the boxes below:

I have a Protestant Community Background	
I have a Roman Catholic Community Background	
I have neither a Protestant nor a Roman Catholic Community Background	

GOVERNORS OF ARMAGH OBSERVATORY AND PLANETARIUM

Referee Report Form — EUNAWE Project Manager (European Universe Awareness)

Full Name of Candidate:

Name of Referee:

Organization and Position:

Contact Address:

Capacity in Which You Know the Candidate:

Please rank the candidate by ticking the appropriate boxes below and providing comments or examples where appropriate to support your assessment. The marks 1 to 5 (1 Outstanding; 4 Poor; 5 Unable to Judge) represent the following:

1. Outstanding 2. Consistently above average 3. About average 4. Poor 5. Unable to Judge

Please return the completed form to The Administrator, Armagh Observatory, College Hill, Armagh, BT61 9DG, Northern Ireland. Tel: +44-(0)28-3752-2928; FAX: +44-(0)28-3752-7174; e-mail: jcd@arm.ac.uk.

Criterion	Comment
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Experience and potential

Candidate has a proven track record in the field of education/astronomy outreach; shows high ability and exceptional technical competence

1 2 3 4

Candidate has a poor track record and/or low ability/technical competence

5

Skills and general knowledge

Strong potential to lead/manage projects; works well with minimal supervision

1 2 3 4

Requires constant prompting and/or supervision; unable to lead/manage projects

5

Exceptional knowledge of astronomy applied to education and science in the community

1 2 3 4

Limited knowledge in this area

5

Highly creative; shows flair, drive and initiative; good insight

1 2 3 4

Limited creativity; no drive; no insight

5

Wide experience; good knowledge of relevant science/curriculum applications

1 2 3 4

Limited experience; poor knowledge of relevant science/curriculum applications

5

Communication skills

Excellent communication skills; strong ability to explain subject matter to others, orally and verbally

1 2 3 4

Limited interest and ability to explain material to others

5

Motivation and working relationships

Highly motivated and enthusiastic; establishes good working relationships with others; seeks and accepts responsibility at all times

1 2 3 4

Poor motivation; misses opportunities; poor interactions with others

5

Good team spirit; open, friendly and active in group situations

1 2 3 4

Tactful and sensitive in dealing with colleagues and others

1 2 3 4

Reliable, can be trusted

1 2 3 4

Poor team spirit; sits back and lets others do the work

5

Tactless, can be abrasive dealing with colleagues and others

5

Unreliable, low integrity

5

Please provide a summary assessment and any other comments about this candidate which you think may be relevant (continue on a separate sheet if necessary). Thank you for your time in completing this form.

Please indicate the confidence that you have in your assessment of this candidate.

Confidence of Assessment High/Average/Low (please delete where appropriate)

Signature:

Date:

ARMAGH OBSERVATORY

Armagh, Northern Ireland

JOB INFORMATION: EUNAWE PROJECT MANAGER

EUNAWE Project Manager (European Universe Awareness)

Essential and Desirable Criteria

The project requires a high level of independent working; the use of initiative and accumulated experience, and the exercise of sound judgement. It involves the delivery of teacher training workshops to primary school teachers; the development of an outreach programme to schools; the creation (with others) of a national EUNAWE (European Universe Awareness) website providing links to the international UNAWE programme and additional educational resources; and the development of new educational resources and activities as part of UNAWE development worldwide.

Candidates must have a degree or equivalent experience in a relevant subject area; experience in explaining astronomy to schools and/or the general public; excellent written and oral communication skills; an understanding of how astronomy and the wider UNAWE programme align with the national curriculum, especially at primary school level; and good time/self-management skills.

It is desirable that candidates should have a teaching qualification or equivalent experience working with children and/or teacher training; appropriate IT skills; experience in developing or supplying educational and/or promotional material for dissemination via the Internet and other media; and enthusiasm and a strong commitment to astronomy outreach.

Main Duties and Responsibilities

The primary aim of the EUNAWE programme is to exploit the inspirational elements of astronomy and space sciences to interest young and underprivileged children in science, technology, engineering and mathematics in order to broaden their minds and stimulate a sense of belonging to a wider European and worldwide community. The project builds on Universe Awareness (UNAWE), an innovative and proven programme aimed at engaging young people in modern astronomy and space science to inspire and excite them with knowledge of the Universe of which our Earth is a part.

The EUNAWE Project Manager will be responsible for all practical deliverables of the UK element of the EUNAWE programme, including the objectives of (a) delivering a minimum of three teacher-trainer workshops in each of the two years of the project; (b) developing an outreach programme to schools, possibly together with elements of the Observatory's programme of Science in the Community; (c) the creation (with others) of a national EUNAWE website which will provide links to the international UNAWE programme and to additional educational resources; (d) the development of new educational resources as part of UNAWE development worldwide; (e) liaison with the International Project Manager (based at the University of Leiden, the Netherlands) and with other EUNAWE partners based in Germany, Italy, Spain and South Africa; (f) the procurement of materials following EU and Observatory procedures; and (g) the provision of interim and annual reports and other written outputs according to the requirements of the EU Grant Agreement.

The work will involve working closely with the EUNAWE National Coordinator at the Armagh Observatory, Professor Mark E. Bailey, particularly in translating project requirements into actions; and with the EUNAWE International Coordinator and International Project Manager, both based in Leiden, the Netherlands. There will be regular meetings between the EUNAWE Project Manager and the Grant PI at the Armagh Observatory, several per month during the initial phases of the project and a minimum of one per month thereafter.

The EUNAWÉ Project Manager will be expected to play a full role in the group of postdoctoral researchers, PhD students and occasional visitors to the Armagh Observatory of which he/she will be a part. This may include attending regional, national or international conferences and participating in astronomical field trips, which may occur at unsocial times, and carrying out any other duties commensurate with the grade as deemed necessary by the international EUNAWÉ project manager or the Director of the Armagh Observatory.

Salary and Other Benefits

- POST: EUNAWÉ PROJECT MANAGER (EUROPEAN UNIVERSITY AWARENESS)
- SALARY RANGE: The salary, which is pensionable, is based on the Universities and Colleges Employers Association illustrative pay scales for Higher Education staff, in the range £26,062 to £32,657. The starting point is expected to be near the bottom of the scale but may be higher depending on experience. Pay progression will be one increment on the anniversary of appointment, subject to satisfactory progress.
- SUPERANNUATION: The EUNAWÉ Project Manager will be entitled to join the Northern Ireland Local Government Officers Superannuation Scheme. Full details are available at <http://www.nilgosc.org.uk/>.
- RESPONSIBLE TO: Professor Mark E. Bailey, EUNAWÉ National Coordinator and Director, Armagh Observatory
- DURATION: The post is a two-year fixed-term position available from 2011 September 1 or as soon as possible thereafter. The post is funded by the Research Executive Agency (SP1-Cooperation) under the Seventh Framework Programme of the European Union (EU), Coordination and Support Action FP7-SPACE-2010-1 (Grant Agreement 263239). Fixed-term contract posts are available for the stated period in the first instance but in particular circumstances may be extended subject to availability of further funding.
- CONTACT ADDRESS: Armagh Observatory, College Hill, Armagh, BT61 9DG, Northern Ireland, UK. Tel: +44-(0)28-3752-2928; FAX: +44-(0)28-3752-7174; e-mail: info@arm.ac.uk; web-site: <http://star.arm.ac.uk/>.

Eligibility to Apply for This Post at the Armagh Observatory

This Post is limited to *settled workers* as defined in page 1 of the “Tier 2 and 5 Sponsor Guidance Document v12/10”. This includes UK nationals as well as nationals of many EU countries. If you are unsure as to your eligibility to apply for this post, follow the “further information link” below.

- United Kingdom (UK) immigration rules make it a criminal offence for employers to employ someone who is not entitled to work in the UK. It is therefore a condition of employment that the successful candidate must provide documentary evidence that they are legally entitled to work in the UK.
- For further information, see:
<http://ukba.homeoffice.gov.uk/sitecontent/documents/employersandsponsors/pbsguidance>

Application Procedure

Applicants should send the completed application form and a full curriculum vitae to: The Administrator, Armagh Observatory, College Hill, Armagh BT61 9DG, Northern Ireland (Tel: +44-(0)28-3752-2928; FAX: +44-(0)28-3752-7174; e-mail: jcd@arm.ac.uk). Candidates should arrange for references from two or three referees to be sent to the same address as early as possible to ensure full consideration of the application.

Dates to Remember

The Armagh Observatory is fortunate in attracting strong candidates for specific vacancies. Applications will be acknowledged, and shortlisting will take place as soon as practicable after the closing date. Short-listed candidates will be invited to Armagh for an interview as soon as possible after the closing date for applications, expected to be in the second half of August 2011.

In making the appointment we will adhere to the timetable set out below, unless you are subsequently notified otherwise.

CLOSING DATE:	2011 August 5. Late applications may be considered until the position is filled.
INTERVIEW DATE:	Second half of August 2011.
START DATE:	2011 September 1 or as soon as possible thereafter.

General Information

The Vision of the Armagh Observatory is:

“To build on its position as a thriving astronomical research institute, and to continue to expand our understanding of the Universe and of humanity’s place in it.”

The Mission is:

“To advance the knowledge and understanding of astronomy and related sciences through the execution, promotion and dissemination of astronomical research nationally and internationally in order to enrich the intellectual, economic, social and cultural life of the community.”

The Armagh Observatory (see <http://star.arm.ac.uk/>) is a modern astronomical research institute, the oldest scientific institution in Northern Ireland. Founded by Archbishop Richard Robinson in 1789 as part of his vision to see the creation of a university in the City of Armagh, the Observatory stands close to the centre of the City of Armagh together with the Armagh Planetarium in approximately 14 acres of attractive, landscaped grounds known as the Armagh Astropark. The Observatory Demesne, Grounds and Astropark, which are developed and maintained by Observatory staff, include scale models of the Solar System and the Universe, two sundials and two historic telescopes, as well as telescope domes and other outdoor exhibits (see <http://star.arm.ac.uk/astropark/>). A new public outreach facility, the Human Orrery (see <http://star.arm.ac.uk/orrery/>), is located close to the historic main building of the modern Observatory. In addition, the Observatory’s Library and Archives, and its specialist collection of scientific instruments and artefacts associated with the development of modern astronomy over more than two hundred years, rank amongst the leading collections of their kind in the UK and Ireland.

The principal function of the Armagh Observatory is to undertake original research of a world-class academic standard that broadens and expands our understanding of astronomy and related sciences. In recent years key programmes have focused on Stellar Astrophysics, the Sun, Solar System astronomy, and Solar System – Earth relationships including the Sun’s influence on climate and the impact of interplanetary dust, comets and asteroids on the Earth. Other activities include maintaining the unique, more than 215-year long meteorological series and data-bank (<http://climate.arm.ac.uk/>), the longest in the UK and Ireland from a single site, and playing a key role together with the Armagh Planetarium in promoting public understanding of astronomy and related sciences.

There is currently a fluctuating population of around 30 research staff including students and short-term visitors, who are supported by a pool of technical and administrative support staff: two computer/IT specialists, one librarian/public relations officer, the director’s PA/group secretary, one finance officer, and a senior administrator shared 50% with the Armagh Planetarium. The 14 acres of landscaped Observatory Grounds and Astropark and the daily meteorological readings are maintained by a senior grounds/meteorological support officer, responsible for taking the daily meteorological readings, and an assistant groundsman.

Research interests of Observatory staff are currently focused on four main areas of astronomy, namely:

- **Solar-System Science:** including celestial mechanics, planetary science, the dynamics of meteors and other small bodies, the origin of comets and trans-Neptunian objects (TNOs), and the interrelationships between comets, asteroids, meteoroids and interplanetary dust, and near-Earth objects (NEOs);
- **Solar Physics:** including the dynamic solar atmosphere, the chromosphere and corona, and Sun-Earth relationships including climate;

- **Stellar Astrophysics:** including hot stars, massive stars, stellar winds, degenerate and helium stars, asteroseismology, studies of binary stars (including their origins, physical properties, population studies, and the physical properties of ultra-compact binaries), and constraints on gamma-ray burst progenitors; and
- **Galactic Astronomy:** including brown dwarfs, star formation, globular and open clusters.

In addition, Observatory staff participate in a vibrant programme of Science in the Community, involving astronomy education and public outreach via lectures, popular astronomy articles and interviews with the press, radio and television. Further details concerning recent and current research interests of Armagh Observatory staff may be obtained from the Observatory web-site, at <http://star.arm.ac.uk/>.

Armagh Observatory staff regularly obtain telescope time on national and international facilities, such as the ESO Very Large Telescope (<http://www.eso.org/outreach/ut1f1/>) and various spacecraft missions (such as SoHO, SDO, Hinode, XMM-Newton, and HST), and attract research grants from various grant awarding bodies (e.g. the STFC, the Royal Society, the Leverhulme Trust, British Council etc). The Observatory is also a member of the UK SALT Consortium (UKSC), providing access to the 11-metre diameter Southern African Large Telescope (SALT: see <http://star.arm.ac.uk/SALT/>), located at the Sutherland Observatory, South Africa. Complementing these international facilities, restoration of the Observatory's historic telescopes has brought opportunities to reintroduce some professional observing from Armagh, while new computer and camera technology has enabled a variety of new automatic observational programmes to be introduced from Armagh, recording data autonomously whenever the sky is clear.

Technical equipment at Armagh, which is used primarily for numerical analysis, computer modelling and data reduction, has been funded by the STFC, Leverhulme Trust, and the DCAL. Facilities presently comprise a number of iMac workstations Linux workstations and peripherals. In addition, the Observatory has 80 TB of on-line storage capacity obtained during 2010 with additional funding from the DCAL. The internal network is a 1 Gbps backbone ethernet linked with switched hubs. The external network is connected to the Joint Academic Network (JANET) through a 100 Mbps link provided through the Observatory's participation in the Northern Ireland Regional Area Network (NIRAN). The Armagh Observatory also has access to the Stokes Supercomputer at the Irish Centre for High-End Computing (ICHEC). These computer facilities are used mainly for computationally intensive research projects in observational and theoretical astrophysics (including data reduction and modelling) in areas such as solar physics, stellar atmospheres, stellar winds, radiation hydrodynamics, numerical magneto-hydrodynamics, and solar system dynamics.

In addition to the institution's primary research role, the Observatory has an important responsibility to maintain and preserve the fabric of the historic buildings, the library, historic books and archives, and the collection of scientific instruments and other artefacts built up over nearly 220 years of continuous astronomical activity in Armagh. The main historic buildings of the Observatory have unique architectural features and house one of the most valuable collections of scientific books, instruments and archives in Northern Ireland. Full details about the Armagh Observatory and its current research and other activities can be obtained from recent annual reports, at <http://star.arm.ac.uk/annrep/>.

EUNAWWE — European Universe Awareness
Building on the International Year of Astronomy: Making
young children aware of the Universe



- **Project name** EUNAWWE — European Universe Awareness: Making young children aware of the Universe
- **Authors** George Miley, Carolina Ödman (UL& SAAO), Pedro Russo, Frederiek, van Holthe (UL) Andreas Quirrenbach, Cecilia Scorza (HU) Rosa Ros (UPC) Franco Pacini, Lara Albanese, Alessandra Zanazzi (INAF) Kevin Govender (SAAO) Mark Bailey (Armagh)
- **Institutions** Leiden University, The Netherlands (UL), Heidelberg University, Germany (HU), Universitat Politècnica De Catalunya, Spain (UPC), INAF-Arcetri Observatory, Italy (INAF), South African Astronomical Observatory (SAAO), Armagh Observatory, UK (Armagh)
- **Abstract** Thinking about the Universe and space fascinates children. European Universe Awareness (EUNAWWE) is a programme that uses the beauty and grandeur of the Universe to encourage young children, particularly those from an underprivileged background, to have an interest in science and technology. With a focus on the wonder and excitement of astronomy and space sciences, EUNAWWE broadens children's minds, awakens their curiosity in science and stimulates internationalism and tolerance. Although UNAWWE, the international project, was only founded four years ago, it is already active in 40 countries and comprises a global network of almost 500 astronomers, teachers and other educators.

EUNAWWE is a three-year project in six countries — Germany, Italy, the Netherlands, Northern Ireland, South Africa and Spain. The project includes organising teacher training courses and developing hands-on material for children. In the long term EUNAWWE aims to help produce the next generation of European and South African engineers and scientists and contribute to the integration of underprivileged communities.

The EUNAWWE goals are to:

1. Train and empower primary school teachers to include space topics in the classroom.
2. Develop and translate hands-on material over the partner countries.
3. Provide a network for the exchange of expertise and material between educators of very young children in EU member states, Associated Countries and International Cooperation Partner Countries
4. Help stimulate the production of the next generation of European engineers and scientists, particularly girls.
5. Contribute to the integration of underprivileged communities in participating countries.
6. Strengthen collaboration between Europe and South Africa over mutually beneficial scientific, technological, educational and social topics.
7. Lay the groundwork for expansion during FP8 to all EU member states and additional countries in Africa and Asia.

- **Work programme, methodology, milestones.** The tasks that will be carried out to accomplish EUNAWE are the following.

	Tasks	Associated Work Packages
T1	Train and empower primary school teachers in each partner country to provide inspiring lessons to young children, involving the Universe and space.	WP5
T2	Develop, translate and disseminate hands-on and inquiry-based educational resources in each of the partner countries, emphasising European and South African science and technology.	WP7, WP8
T3	Provide a network for the exchange of expertise and material between educators of young children in EU member states, Associated Countries and International Cooperation Partner Countries.	WP2, WP3, WP4
T4	Expose substantial numbers of young children in the 6 participating countries to awareness of the Universe, emphasizing astronomy and space sciences for developing perspective and an appreciation of the rational method.	WP5
T5	Foster interaction and exchange of best practice between professional scientists and primary level educators.	WP5, WP6, WP7
T6	Develop indicators and evaluation instruments for the programme and evaluate EUNAWE.	WP9

These tasks have been divided into several work packages and relevant milestones have been specified to ensure that the goals are achieved and the tasks are fulfilled in a timely fashion.

- **Partnerships and collaborations.** The following are UNAWE partner organisations not included in the EUNAWE Consortium.

COUNTRY	INSTITUTE(S)
Belgium	Institut d'Astronomie et d'Astrophysique, Université Libre de Bruxelles Koninklijke Sterrenwacht van België Brussels Planetarium
Brazil	Luis Cruls Clube de Astronomia, North Fluminense State University, Campos de Goytacazes. ISCA Faculdades - Instituto Superior de Ciências Aplicadas, Cruz do Padre
Chile	European Southern Observatory (ESO). Universidad Metropolitana de Ciencias de la Educación
China	Beijing Planetarium
Colombia	Science Museum Maloka, Bogota Planetarium, Local astronomy clubs
Egypt	Planetarium of the Library of Alexandria
Guatemala	Universidad de San Carlos de Guatemala, Universidad Rafael Landivar Liceo Javier
Iceland	Stjörnuskóðun, Amateur Astronomical Society
India	Tamil Nadu Science Forum (Tamil Nadu), Vigyan Prasar (Indian Government science popularization), Pratham (Mumbai & other cities), AID India (Chennai)
Indonesia	Institut Teknologi Bandung, Bosscha Observatory
Ireland	Blackrock Castle Observatory, Irish Astronomical Society

Kenya	UNAWA Kenya and Cosmos Education
Malta	University of Malta
Mozambique	Eduardo Mondlane University
Portugal	Nuclio, Astronomy education organisation
Romania	Bucharest Astronomy Club
Sri Lanka	Sri Lanka Astronomical Association
Tanzania	Sokoine University of Agriculture, Morogoro
Tunisia	Science City in Tunis, Children's and Youth Clubs (government informal education programme)
Turkey	Astronomical Society of Turkey
Uruguay	Departamento de Astronomia, Instituto de Fisica, Montevideo
United States	Moulton School, Des Moines (Iowa), Riverside Country Library System (California)
Venezuela	Centro de Investigaciones de Astronomia, Merida, UNESCO Associated Schools Network (ASPNet)

- **Expected results** The outcome of EUNAWA will have an impact in several areas.
 1. **Impact on Society:** EUNAWA will spread awareness of astronomy and space to a broad segment of society. By training teachers EUNAWA will reach a large number of children and the age group of the children is such that parents and families will necessarily also be exposed to the programme.
 2. **Form a recruitment base for the next generation of scientists and engineers:** EUNAWA educational resources emphasise learning methods that have demonstrably engaged young children in science on the long term. Furthermore, the EUNAWA approach is tailored to encourage girls to take up science, through role models and gender-balanced representations of scientific professions.
 3. **Value added for European Astronomy and Space expenditure:** European astronomy and space achievements will feature prominently in EUNAWA educational resources. In addition to increasing general awareness of European science and technology, EUNAWA will provide schools and teachers with opportunities to learn more about the European astronomy and space programmes by e.g. visiting scientific facilities or following the news.
 4. **Legacy for science education:** EUNAWA will develop innovative teaching methods for a new group of children. Targeting very young children, a group that has been neglected in previous astronomy and space outreach programmes guarantees that it will be an extremely visible programme and that it will have maximum impact both on intermediate and long timescales. The evaluation of the programme will serve as reference for further development of science education at the primary school level.
 5. **Potential for long-term continuation:** Active efforts will be made to seek continued support and expand the programme in EU member states, Associated Countries and International Cooperation Partner Countries. This will guarantee that the future impact of EUNAWA will extend beyond the present partner countries and have an impact throughout the wider UNAWA network of more than 40 countries.

Conclusions: In the last 5 years UNAWE developed from an idea into a programme that is active in more than 40 countries, with a network of more than 500 experts. UNAWE was a cornerstone project of the UN-ratified International Year of Astronomy and is now an official activity of the International Astronomical Union and a component of the IAU Decadal Strategic Plan “Astronomy for the Developing World”¹. EUNAWE builds on the UNAWE accomplishments to (i) enable a full UNAWE programmes to be carried out in 6 countries and (ii) lay the groundwork for the further expansion of UNAWE within the EU and within Africa.

¹ http://iau.org/static/education/strategicplan_091001.pdf



EUNAWÉ Project Manager European Universe Awareness

A two-year fixed-term position of EUNAWÉ Project Manager is available at the Armagh Observatory funded by the Seventh Framework Programme of the European Union (EU). Initial salary is expected to be near the bottom of the range £26,062 to £32,657 per annum, but may be higher depending on experience. The primary aim of European Universe Awareness (EUNAWÉ) is to exploit the inspirational elements of astronomy and space sciences to interest young and underprivileged children in science, technology, engineering and mathematics in order to broaden their minds and stimulate a sense of belonging to a wider European and worldwide community. The project builds on Universe Awareness (UNAWÉ), an innovative and proven programme aimed at engaging young people in modern astronomy and space science to inspire and excite them with knowledge of the Universe of which our Earth is a part.

The EUNAWÉ Project Manager will be responsible for all practical deliverables of the UK element of the EUNAWÉ programme, including the objectives of (a) delivering a minimum of three teacher-trainer workshops in each of the two years of the project; (b) developing an outreach programme to schools, possibly together with elements of the Observatory's programme of Science in the Community; (c) the creation (with others) of a national EUNAWÉ website which will provide links to the international UNAWÉ programme and to additional educational resources; (d) the development of new educational resources as part of UNAWÉ development worldwide; (e) liaison with the International Project Manager (based at the University of Leiden, the Netherlands) and with other EUNAWÉ partners based in Germany, Italy, Spain and South Africa; (f) the procurement of materials following EU and Observatory procedures; and (g) the provision of interim and annual reports and other written outputs according to the requirements of the EU Grant Agreement.

The project requires a high level of independent working; the use of initiative and accumulated experience, and the exercise of sound judgement. Candidates must have a degree or equivalent experience in a relevant subject area; experience in explaining astronomy to schools and/or the general public; excellent written and oral communication skills; an understanding of how astronomy and the wider UNAWÉ programme align with the national curriculum, especially at primary school level; and good time/self-management skills. It is desirable that candidates should have a teaching qualification or equivalent experience working with children and/or teacher training; appropriate IT skills; experience in developing or supplying educational and/or promotional material for dissemination via the Internet and other media; and enthusiasm and a strong commitment to astronomy outreach.

The work will involve working closely with the EUNAWÉ National Coordinator at the Armagh Observatory, Professor Mark E. Bailey, particularly in translating project requirements into actions; and with the EUNAWÉ International Coordinator and International Project Manager, both based in Leiden, the Netherlands. There will be regular meetings between the EUNAWÉ Project Manager and the Grant PI at the Armagh Observatory, several per month during the initial phases of the project and a minimum of one per month thereafter.

The EUNAWÉ Project Manager will be expected to play a full role in the group of postdoctoral researchers, PhD students and occasional visitors to the Armagh Observatory of which he/she will be a part. This may include attending regional, national or international conferences and participating in astronomical field trips, which may occur at unsocial times, and carrying out any other duties commensurate with the grade as deemed necessary by the international EUNAWÉ project manager or the Director of the Armagh Observatory.

The closing date is 2011 August 5. Late applications may be considered until the position is filled. Applicants should send the completed application form and a full curriculum vitae to: The Administrator, Armagh Observatory, College Hill, Armagh BT61 9DG, Northern Ireland (Tel: +44-(0)28-3752-2928; FAX: +44-(0)28-3752-7174; e-mail: jcd@arm.ac.uk). Candidates should arrange for references from two or three referees to be sent to the same address as early as possible to ensure full consideration of the application. Shortlisted applicants will be expected to attend an interview shortly after the closing date. For more information about the project, please contact Professor Mark E. Bailey by email at meb@arm.ac.uk.

The Armagh Observatory is an equal opportunities employer.