



السيد الأستاذ الدكتور/ على محمد شمس الدين
رئيس جامعة بنها

تحية طيبة .. وبعد ،

أتشرف بأن أرفق مع هذا صورة مما ورد إلى أكاديمية البحث العلمي والتكنولوجيا من معهد
فرانكلين بفلادفيا بشأن الدعوة للترشيح لجائزة :

Bower Award and Prize For Achievement in Science 2012

فى مجال :

Phetonic Source Technology

وقيمة الجائزة ٢٥٠,٠٠٠ دولار أمريكي وميدالية ذهبية .

برجاء التفضل بالتبنيه نحو اتخاذ اللازم للإعلان عن الجائزة على أن ترسل الترشيحات
مدعمة بالأوراق اللازمة الى مؤسسة الجائزة مباشرة على العنوان :

The Franklin Institute
222 North 20 th street
Philadelphia, PA 19103-1194

علما بأن آخر موعد لإرسال الأوراق المطلوبة ٣١ مايو ٢٠١٢

وإذ انتهت هذه الفرصة وأتقدم لسيادتكم بخالص الشكر على صادق تعاونكم مع الأكاديمية ،
لأرجو أن تتفضلوا بقبول وافر الاحترام والتقدير

رئيس الأكاديمية

ومساعد الوزير للبحث العلمي


”أ.د. ماجد مصطفى الشرييني“

THE 2013 BOWER AWARD AND PRIZE FOR ACHIEVEMENT IN SCIENCE



CALL FOR NOMINATIONS

THEME: PHOTONIC SOURCE TECHNOLOGY

PRIZE: \$250,000 USD

DEADLINES:

NOTICE OF INTENT TO NOMINATE IS ENCOURAGED: MARCH 31, 2012

COMPLETE NOMINATION: MAY 31, 2012

The Franklin Institute seeks nominations for the 2013 Bower Award and Prize for Achievement in Science of individuals who have made significant scientific contributions to our understanding of the structure and function of photonic sources for communications, medical applications, chemical sensing, and display and illumination techniques. Nominations may recognize efforts including, but not limited to:

- Reduced dimensionality in optical sources
- Quantum semiconductor lasers
- Vertical cavity surface emitting lasers
- Efficient optical sources for display and illumination
- Photonic sources in data networking and storage
- Photonic sources for biomedical applications
- Chemical sensors using optical source technology

Nominations should clearly indicate the scientific impact(s) of the nominee's work, whether innovative, technical, conceptual, and/or integrative.

In cases of candidates with equal technical merit, the factor of current economic value of the discovery or application will weigh favorably on behalf of the candidate (Bower Will, 1988).

ELIGIBILITY:

- This is an international competition for individuals whose work has had a significant impact on our understanding of photonic source technology and/or its applications.
- This award and prize is presented to an individual. If group work is selected, an individual must be identified as the group's leading scientist and the award and prize will be presented to him or her.
- Candidates for the award must be living, and the winner must participate in The Franklin Institute Awards Week programming, to be held April 22 - 25, 2013 in Philadelphia.

FOR MORE INFORMATION, GO TO: www.fi.edu/franklinawards/call.html

The 2013 Bower Award and Prize for Achievement in Science

THEME: PHOTONIC SOURCE TECHNOLOGY
PRIZE: \$250,000 USD

DEADLINES:

Notice of intent to nominate is encouraged: **March 31, 2012**

Complete Nomination: **May 31, 2012**

The Franklin Institute seeks nominations for the 2013 Bower Award and Prize for Achievement in Science of individuals who have made significant scientific contributions to our understanding of the structure and function of photonic sources for communications, medical applications, chemical sensing, display, and illumination. Nominations may recognize efforts including, but not limited to: hetero-structure based efficient optical sources, reduced dimensionality semiconductor devices, semiconductor based laser diodes, and the application of these technologies in data communications, data storage, illumination, display, biomedical engineering, and chemical sensing. Nominations should clearly indicate the scientific impact(s) of the nominee's work, whether innovative, technical, conceptual, and/or integrative.

In cases of candidates with equal technical merit, the factor of current economic value of the discovery or application will weigh favorably on behalf of the candidate (Bower Will, 1988).

ELIGIBILITY:

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- Candidates for the award must be living, and the winner must participate in The Franklin Institute Awards Week programming, to be held April 22 - 25, 2013 in Philadelphia.

NOMINATION PROCEDURES:

An e-mail of intent to nominate received by **March 31, 2012** is encouraged.

Nominations must be submitted in English and must include:

- Name, Occupational Address, Phone and E-mail of nominee
- Name, Occupational Address, Phone and E-mail of nominator
- Curriculum Vitae of nominee and Bibliography of significant and relevant publications
- A Proposed Citation limited to 50 words
- A Narrative Statement describing the nominee's qualifications for the award
- 4 confidential Letters of Support requested by the nominator, mailed directly to The Franklin Institute Awards Office
- **Deadline for completed nominations is May 31, 2012**

ALL NOMINATIONS AND SUPPORTING LETTERS SHOULD BE ADDRESSED TO FREDERIC M. N. BERTLEY, PH.D. AND MAILED OR EMAILED TO:

Frederic M. N. Bertley, Ph.D.
Vice President, Science & Innovation
c/o Beth Scheraga
Director of Awards Program
The Franklin Institute
222 North 20th Street
Philadelphia, PA 19103-1194
E-mail: bscheraga@fi.edu

FOR QUESTIONS CONTACT:

Beth Scheraga
Director of Awards Program
Phone: 215.448.1329
E-mail: bscheraga@fi.edu

FOR MORE INFORMATION GO TO: www.fi.edu/franklinawards

The Bower Award and Prize for Achievement in Science was established in 1990 through a bequest from Philadelphia chemical manufacturer and philanthropist Henry Bower (1896-1988). The award, which includes a gold medal and cash prize of \$250,000, is presented annually to a distinguished member of the international scientific community for work in a prescribed discipline that changes each year.

The Bower Award and Prize for Achievement in Science and the Bower Award for Business Leadership are the newest in The Franklin Institute's long history of recognizing and encouraging achievement in science, technology, and leadership. Through The Franklin Institute Awards, which today includes the Benjamin Franklin Medals and the Bower Awards, the Institute has honored more than 2,000 luminaries since 1824, representing the greatest minds of the 19th, 20th, and 21st centuries. The roster of Franklin Institute Laureates reads like a Who's Who of science and invention, including the eminent scientific and technological minds Nikola Tesla, Thomas Edison, Lord Rayleigh (John William Strutt), Joseph John Thomson, Albert A. Michelson, Max Planck, William H. Bragg, Albert Einstein, Sir Chandrasekhara Venkata Raman, Sergei A. Schelkunoff, John Bardeen, Kenneth Bullington, Charles H. Townes, Clarence Melvin Zener, Ali Javan, Theodore H. Maiman, Arthur L. Schawlow, Chandra Kumar Naranbhai Patel, Emmett N. Leith, Zhores I. Alferov, Nikolai Nikolaevich Bogoliubov, Erich Peter Ippen, Paul C. Lauterbur, Roy J. Glauber, Serge Haroche, Sir Martin Rees, Ralph Cicerone, Antoine Labeyrie, Paul Baran, Irwin Mark Jacobs, Elizabeth Blackburn, Andrew J. Viterbi, Narain G. Hingorani, Robert H. Dennard, Lotfi A. Zadeh, and Dean Kamen.



RDI Focal Points at Egyptian Higher Education, Scientific Research and Technology Institutions

Call for Proposals

(February 2012)

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1. Introduction

Within the general framework of enhancing Egypt's R&D sector, aiming at increasing the role Science and Technology as a driving force towards a knowledge-based economy, multiple initiatives have been undertaken by the Ministry of Higher Education and Scientific Research to invigorate Scientific Research.

The Egyptian ministry of Scientific Research has set up a reform strategy for the S&T sector including six action lines. Among those action lines, lies the very important aspect of International Cooperation within the S&T sector.

Within the context of the European Neighborhood and Partnership Instrument (ENPI), Egypt and the EU signed an Agreement for Scientific and Technological Cooperation in June 2005, consolidating their long-standing endeavors in this area. The Agreement aims to encourage, develop and facilitate cooperative research and development activities of common interest to Egypt and the EU, in science and technology, on the basis of mutual benefit.

As a result of the Science and Technology Agreement, Egypt and the EU signed in 2007 the Research, Development and Innovation (RDI) agreement (MEDA – 11 million Euros for a period of 3 years), with an overall objective to contribute to enhancing growth and internal competitiveness through improving Research, Development and Innovation performance in Egypt.

In 2011, Egypt and the EU have signed a second financing agreement (RD-2) as a continuation of the first phase of the RDI Programme and was designed to identify the needs and fine tune objectives and expected results to underpin the Egyptian government's reform efforts in its move towards knowledge-based economy.

The current call for proposal comes within the framework of the RDI-2 programme, as one of its main components (Research Networking) aims at enhancing information dissemination within the Egyptian S&T institutions and industry. Such enhancement of information dissemination would be realized through a support given to a decentralized network of Focal points at Universities, research institutions, industries, etc.

2. Research Networking Unit and RDI Network of Focal Points

Within the activities of the RDI Programme, a network of over 40 focal points at Egyptian Universities, Research Institutions, and Industries has been created and operated throughout the three years of the programme.

Building on experience accumulated during that period, and to further realize a stronger impact, RDI-2 will reformat the RDI Network of Focal Points focusing on specific sectors aligned with both national and EU priorities.

The structure proposed is composed of a central unit in the Programme Implementation Office (PIO) of the RDI Programme at the Ministry of Scientific Research, and extends nationwide represented by RDI Focal Points (RDI FPs). The RDI FPs are the main actors on the ground responsible for providing information, guidance and support to researchers in their organizations who wish to participate in EU Research Programs.

3. Call for Proposal for RDIN Focal Points

Within the general context mentioned above, the RDI-2 programme is launching a call for proposal for a number of focal Points (RDI Focal Points (RDI FP), Thematic National Contact Points (NCP) and Technology Transfer Officers (TTO)) at various higher education and research institutions in Egypt. Focal Points areas of interest / geographical coverage at each institution / area are chosen according to several parameters which includes, but not limited to: number of researchers, number of publications, research excellency at the institution, geographical coverage, etc.

The following list of tasks/activities to be undertaken by RDI FP/NCP/TTO s is indicative and not claiming to be exhaustive. It rather describes the main terms of reference for each of the sought positions:

A. RDI Focal Points (RDI FP):

1. Dissemination of information on available funding opportunities at the RDI FP host institution. Such dissemination of information could be done through the organization of information sessions/days, website, promotional material, networking activities, email alerts and newsletters.
2. Identification and profiling of potential participants in EU funding programmes at the RDI FP host institution.
3. Assistance of researchers in identifying funding opportunities relevant to the researcher's field of expertise.
4. Assistance with partner search activities in collaboration with thematic NCPs.
5. Organization of capacity building activities on how to prepare and apply for research grant from EU funding programmes.
6. On-going advising and consultation activities to successful applicants.
7. Communicate feedback of interests and difficulties in participating in EU Funding programmes by researchers at the host institute to the Research Networking Unit at the Programme Implementation Office.
8. Synergize with other members of RDI Network of Focal Points together with the FP7 thematic National Contact Points (NCP) and the Technology Transfer officers (TTO) in dissemination, capacity building, brokerage and networking activities.

B. Thematic National Contact Points (NCP):

1. Informing, awareness raising:
 - Circulate general and specific documentation on the EU Funding programmes, including on conditions for participation, and on possibilities and conditions for submission of proposals.

- Organise promotional activities e.g. info-days, seminars, conferences, newsletters, Web sites, fairs, etc. in collaboration with RDI network of Focal Points and TTOs.
2. Advising, assisting and training
 - Explain the scope and the modalities of the whole spectrum of funding schemes to be used in the EU Framework Programme (FP7 and beyond).
 - Advise on administrative procedures and legal issues (e.g. role and responsibilities of participants in a consortium, costs, rights and obligations of participants, respect of ethical rules and for the principles laid down by the European Commission.
 - Assist in partner search activities in collaboration of the RDI network of Institutional Focal Points notably by disseminating calls for proposals (using Community tools such as CORDIS, co-operation networks, business support network services etc.
 - Organize training sessions on RTD programmes for intermediaries and information multipliers to ensure high quality of advice.
 - Organize training seminars in collaboration with RDI network of Focal Points and TTOs for specific target groups (SMEs, universities, professional organizations, women in science etc.) or on specific topics (legal aspects, modalities for participation, research areas covered by several specific programmes, ethical rules etc.).
 3. Communicate feedback of interests and difficulties in participating in EU Funding programmes by Egyptian researchers to the Research Networking Unit at the Programme Implementation Office.

C. Technology Transfer Officers (TTO):

1. Strengthen linkages and cultural partnership with the industry
 - Identify the requirements of the industry and market needs
 - Carry out research and development activities related to industry needs
 - Provide Consulting Services and promot applied research and innvation
 - Develop joint proposals/projects with the industry
2. Professional Consulting Services and R&D
 - Provide a pool of sector and field specialized consultants.
 - Provide Capacity buliding to the Inustry and private sector.
 - Prepare and maintian consultancy contracts.
3. Innovation & Entrepreneurship development
 - Assist in the preparation of needs assesment, gap analysis and business plans
 - Valuation of technology
 - Support entrepreneurs and local inventons
4. Marketing and Commercialisation
 - Market research outputs
 - Assist in the preparation of business models and market research
 - Technology commercialization
5. Patent Promotion
 - Assist in filing patents and managing them
 - Support spin-offs and licensing

➤ Call Procedure

- The RDI-2 programme have established a list of “sought” focal points at each institution / geographical area / scientific disciplines (cf. list of sought focal points below)
- A limited call for proposal is published at Egyptian Higher Education and Research Institutions including only the focal point(s) sought at the institution.
- Interested applicants at the host ins tu on should apply directly to the RDI-2 programme (cf. where and how to send the applications).
- The RDI-2 programme will run a series of interviews with applicants for the nal selection of focal point.
- Application for the position of RDI Focal Point (RDI FP) or National Contact Point (NCP) or Technology Transfer Officers (TTO) should indicate clearly the code of the position sought (cf. list of sought focal points) in addition to the following:
 - i. A qualification letter showing the main qualifications of the applicant and his/her previous history of cooperation with EU member states in Research Funded Projects
 - ii. A motivation letter for the applicant showing his/her interest in being a focal point
 - iii. A preliminary overviews of activities / tools that the applicant would use in order to achieve the above mentioned objectives as a focal point
 - iv. A letter of endorsement from the Host Institutions’ management.

➤ Financial Support for RDI FP/NCP/TTO

Within the ac vi es of the RDI-2 programme, a seed money nancial support is allocated to appoint focal points. Such seed funding will not exceed 10 Thousand Euro including a minimum of 10% co- nance from the host ins tu on for a period of 18 months, and should support compensation for personnel participating in the carrying out the activities of the focal point at the host institution. Details on the funding mechanism / contracting / disbursement of funds will be detailed during the interviewing process of each focal point.

➤ Where and how to send the applications:

Applications must be submitted in a sealed envelope by registered mail, private courier service or by hand-delivery (a signed and dated certificate of receipt will be given to the deliverer) at the address below:

**Ministry of Scientific Research
Research, Development and Innovation (RDI) Programme
101 El Kasr El Aini Street, Second oor
Zip Code 11516
Cairo – Egypt**

Applications sent by any other means (e.g. by fax or by e-mail) or delivered to other addresses will be rejected.

➤ List of Sought Focal Points

The following list shows the list of all sought focal points in Egyptian research institutions. It should be noted that:

- For institutions where more than one focal point is sought, it is expected that one of the focal points will be appointed as a “coordinator” and should play the role of coordinating between various sectors / geographical coverage.
- Applicants for “National Contact Point” may apply for more than one discipline, within their areas of interest.

1. Cai_Med¹: Focal Point at Cairo University – Medical sector
2. Cai_Eng¹: Focal Point at Cairo University – Engineering Sciences sector
3. Cai_Sci¹: Focal Point at Cairo University – Agriculture and Basic Sciences sector
4. Cai_SSH¹: Focal Point at Cairo University– Social Sciences and Humanities sector
5. Alx_Med¹: Focal Point at Alexandria University – Medical sector
6. Alx_Eng¹: Focal Point at Alexandria University – Engineering Sciences sector
7. Alx_Sci¹: Focal Point at Alexandria University – Agriculture and Basic Sciences sector
8. Alx_SSH¹: Focal Point at Alexandria University– Social Sciences and Humanities sector
9. Ain_Med¹: Focal Point at Ain Shams University – Medical sector
10. Ain_Eng¹: Focal Point at Ain Shams University – Engineering Sciences sector
11. Ain_Sci¹: Focal Point at Ain Shams University – Agriculture and Basic Sciences sector
12. Ain_SSH¹: Focal Point at Ain Shams University – Social Sciences and Humanities sector
13. Asut_MedAgri¹: Focal Point at Assiut University – Medical and Agricultural sector
14. Asut_EngBas¹: Focal Point at Assiut University – Engineering and Basic Sciences sector
15. Tnta_MedAgri¹: Focal Point at Tanta University – Medical and Agricultural sector
16. Tnta_EngBas¹: Focal Point at Tanta University – Engineering and Basic Sciences sector
17. Mans_All¹: Focal Point at Mansoura University – All sectors of research in Mansoura
18. Mans_Domiat¹: Focal Point at Mansoura University – Damietta Branch
19. Zag_All: Focal Point at Zagazig University
20. Hlwn_All: Focal Point at Helwan University
21. Mnia_All: Focal Point at Minia University
22. Mnf_All: Focal Point at Menofeya University
23. Suez_Ism¹: Focal Point at Suez Canal University – Ismailia
24. Suez_Suz¹: Focal Point at Suez Canal University – Suez Branch
25. SvU_Qna¹: Focal Point at South Valley University – Quena
26. SvU_Asw¹: Focal Point at South Valley University – Aswan and Luxor Branches
27. Fym_All: Focal Point at Fayoum University
28. Bnh_All: Focal Point at Benha University
29. Bnis_All: Focal Point at Beni Suef University

¹ In institutions where more than one Focal Point is sought, one of the Focal Points should be appointed as a “Coordinator” for the institution

30. Kfr_All: Focal Point at Kafr Elsheikh University
31. Shg_All: Focal Point at Sohag University
32. Prts_All: Focal Point at Port Saeed University
33. Dmhr_All: Focal Point at Damanhour University
34. Azhr_Med¹: Focal Point at Alazhar University – All medical and Agricultural sectors in all branches
35. Azhr_Eng¹: Focal Point at Alazhar University – All Engineering and Basic Sciences sectors in all branches
36. NRC_All: Focal Point at the National Research Center
37. ARC_All: Focal point at the Agriculture Research Centers – Ministry of Agriculture and Land reclamation
38. NWRC_All: Focal Point at the National Water Research Center – Ministry of Irrigation and Water Resource
39. Research Centers: Focal Point for the following research centers: Tthe National Agency for Remote Sensing and Space Sciences (NARSS), The Petroleum Research Center (EPRI), The Theodore Bilharz Research Institute (TBRI), The Center for Metallurgical Research and Development Institute (CMRDI), The National Research Institute of Astronomy and Geophysics (NRIAG), The Electronics Research Institute (ERI), The Research Institute of Ophthalmology (RIO) and The National Institute for Standards (NIS)
40. NIOF_All: Focal Point at the National Institute of Oceanography and Fisheries
41. CSAT_ALL: Focal Point at the City of Science and Technology
42. NCP_Agri: National Contact Point – Food Agriculture and Biotechnology
43. NCP_ENRG : National Contact Point – Energy
44. NCP_ENV: National Contact Point – Environnement and Climat Change
45. NCP_ICT: National Contact Point – Information and Communications Technology
46. NCP_LF: National Contact Point – Legal and Financial Issues
47. NCP_Med: National Contact Point – Health
48. NCP_People: National Contact Point – People
49. NCP_Sis: National Contact Point – Science in Society
50. NCP_SSH: National Contact Point – Social Sciences and Humanities
51. TTO_1: Focal Point for Research – Industry relations' enhancement, at a central University (Greater Cairo Area)
52. TTO_2: Focal Point for Research – Industry relations' enhancement, at a central University (Greater Cairo Area)
53. TTO_3: Focal Point for Research – Industry relations' enhancement, at a central University (Alexandria Area)
54. TTO_4: Focal Point for Research – Industry relations' enhancement, at a central University (Delta Area)
55. TTO_5: Focal Point for Research – Industry relations' enhancement, at a central University (Upper Egypt)

> **Deadline**

Deadline to receive proposals is **Monday 12th March 2012**. Proposals received after this date will not be considered for evaluation.

> **Further Information**

Questions may be sent by e-mail or by fax no later than 7 days from the call publication date to the email address listed below, indicating clearly the reference of the position you are applying for (cf. list of sought focal points above):

E-mail address: rdin@rdi.eg.net

Fax: 02-27927382

For more details about Research Development and Innovation (RDI) Programme, please visit our website www.rdi.eg.net

In the interest of equal treatment of applicants, the Contracting Authority cannot give a prior opinion on the eligibility of an applicant or an action.