



November 2019 LAAAMP information page

## Call for application for FAST (FAculty-STudent) Teams to spend two months during calendar year 2020 at participating advanced light sources

**DEADLINE: 15 December 2019**

Information on application procedure at <https://laaamp.iucr.org>

The International Union of Pure and Applied Physics (IUPAP) and the International Union of Crystallography (IUCr) will award FAST Team grants to enhance advanced light source (AdLS) and crystallography sciences in five targeted regions of the world: Africa, the Caribbean, Mexico, Southeast Asia and Middle East. The successful applicants will spend two (2) months during calendar year 2020 at LAAAMP's AdLS Collaborative Partners to acquire expertise in accelerator technology or AdLS beamline techniques, including those involving crystallography.

### Application Categories

#### Continuing

Consists of applications from FAST Teams that are led by faculty who were 2019 New LAAAMP Awardees.

#### New

Consists of all other applications.

### Who is Eligible under the New Category?

#### Faculty

Employed as a full-time faculty member at an accredited PhD-granting university that is located in Africa, the Caribbean, Mexico, Southeast Asia or Middle East.

Accompanied by one's PhD student research advisee.

Interested in using AdLSs to further one's research and training endeavours.

Previous experience with using AdLSs is limited to a year or less.

Ability to spend two (2) months during calendar year 2020 as a full-time visitor in residence at an AdLS that is a LAAAMP Collaborative Partner.

#### Student

Registered as a full-time PhD student at an accredited university that is located in Africa, the Caribbean, Mexico, Southeast Asia or Middle East.

Accompanied by one's faculty research advisor.

Interested in using AdLSs in one's dissertation research.

Ability to spend two (2) months during calendar year 2020 as a full-time visitor in residence at an AdLS that is a LAAAMP Collaborative Partner.

### Amount of Financial Support

LAAAMP will provide 1,818 Euros per person to cover transportation costs. Any excess will be applied to accommodation and subsistence. The remainder of accommodation and subsistence should be negotiated with the host AdLS and other sources of support.

### Deliverables

Within one month after the conclusion of the visit to the host AdLS, the FAST Team should provide the following:

1. Maximum 10-page description of the research conducted, including any publications that result.

NOTE: All publications should acknowledge the support provided by IUPAP-IUCr LAAAMP.

2. Maximum 3-page report that evaluates the non-scientific aspects of the visit, including positive experiences as well as ways that visits could be enhanced in the future.

**Note: Final funding is dependent upon suitable arrangements being made with a LAAAMP AdLS Collaborative Partner.**

## LAAAMP Tasks

**Task 1.** Develop a **Strategic Plan** for each region to grow and enhance its Advanced Light Sources (AdLSs) and crystallography user communities.

**Task 2.** Establish a **Colloquium Programme** for each region to recruit new AdLS and crystallography users and to advertise LAAAMP projects *via* invited talks at targeted venues. Also, launch a series of new IUCr-UNESCO OpenLabs, which is a network of operational crystallography laboratories in developing countries aimed at increasing the access to, and utilisation of, crystallography in all regions of the world.

**Task 3.** Publish an Informational **Brochure** that describes AdLSs, crystallography, and the many fields that they impact.

**Task 4.** Facilitate **researchers' visits** to AdLS and crystallography facilities.

**Task 5.** Convene a **meeting at UNESCO** to present the regions' Strategic Plans and define the charge for more detailed Business Plans that include feasibility studies of constructing AdLSs in regions where they do not yet exist.

## Partner AdLSs

Advanced Light Source (USA)

Advanced Photon Source (USA)

ALBA (Spain)

Australian Synchrotron

Canadian Light Source

DELTA (Germany)

Elettra (Italy)

European Synchrotron Radiation Facility (France)

MAX IV (Sweden)

National Synchrotron Light Source-II (USA)

Photon Factory (Japan)

Pohang Accelerator Laboratory (South Korea)

SESAME (Jordan)

Siam Photon Source (Thailand)

Stanford Synchrotron Radiation Lightsource (USA)

Taiwan Photon Source

## LAAAMP Structure

### Executive Committee

Sekazi K. Mtingwa, Chair

Michele Zema

Sandro Scandolo

### Regional AdLS Usage and Strategic Plan Committees

AFRICA - Chair: Simon Connell

CARIBBEAN - Chair: Carlos Cabrera

MEXICO - Chair: Matías Moreno

MIDDLE EAST - Chair: Özgül Öztürk

SOUTHEAST ASIA - Chair: Rungrueang Phatthanakun

**Brochure Editor:** Ernie Malamud

**Usage Database Manager:** Lawrence Norris

### Steering Committee

#### Observers

#### Partner institutions

AfLS Steering Committee; AAPPS; Cuban Light Source Initiative; EPS; ICSU ROA; ICSU ROAP; INCREASE; ICTP; IUMRS; UCLA Laboratory for Physics and Applications of High Brightness Beams; Lightsources.org; Puerto Rican Light Source Initiative; Sociedad Mexicana de Física; UNESCO Division of Science Policy and Capacity Building; Triseed Consultants; LLC; TWAS

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