Okinawa Institute of Science and Technology

Postdoctoral Scholars / Applied Cryptography Unit

The Okinawa Institute of Science and Technology Graduate University (OIST – www.oist.jp) is a dynamic new graduate university of science and technology in Okinawa Prefecture, Japan. The university is located on 85 hectares of protected forestland overlooking beautiful shoreline and coral reefs. The campus is striking architecturally, and the facilities are outstanding (OIST campus video tour). There are no academic departments, which facilitates multidisciplinary research. Outstanding resources and equipment are provided and managed to encourage easy access and collaboration. English is the official language of the University, and its research community is fully international, with more than 50 countries represented. OIST is rapidly gaining recognition in the worldwide academic community as a model for excellence in education and research.

Position:

Postdoctoral Scholar in Cryptography (up to four positions)

Position Summary:

The Applied Cryptography Unit at the Okinawa Institute of Science and Technology (OIST) is seeking to hire up to four postdoctoral scholars in cryptography. The Unit, led by Prof. Carlos Cid, was established in 2022, to conduct research in the design and analysis of modern cryptographic primitives and schemes used to protect confidentiality and integrity of data, both in the classical and in the quantum settings. The Applied Cryptography Unit is also part of OIST Center for Quantum Technologies.

To forge and develop the Unit's research activities, we are seeking to hire up to four outstanding post-doctoral researchers to join us, to work in the following topics: post-quantum / quantum cryptography (design and analysis), quantum cryptanalysis, post-quantum cryptographic techniques for privacy-preserving mechanisms.

The postdocs will be provided with funding and access to world-class facilities to pursue their research. The Unit aims to establish a highly collaborative environment, and we expect there will be several opportunities to work with other research groups at OIST, in Japan and overseas.

Starting Date:

As soon as possible.

Working Location:

OIST Main Campus, Lab5

1919-1 Tancha, Onna-son, Kunigami-gun, Okinawa, Japan 904-0495

Responsibilities:

The postdoctoral scholars will work together and in cooperation with Prof Carlos Cid in developing the research activities in cryptography at OIST. They are expected to pursue research projects independently and in collaboration with Prof Cid, other unit members, as well as internal/external collaborators. In addition, all unit members are expected to support training and mentorship of students and other unit staff.

Qualifications:

We are seeking candidates with excellent post-graduate academic formation in cryptography, mathematics, computer science, or a closely related field, with research experience in a topic of relevance to the role. Candidates must have a PhD at the time of commencing the position. Ideal candidates will be curious, creative, highly motivated and able to work independently. They will also have good communication and inter-personal skills. The Applied Cryptography Unit fosters a respectful, constructive and inclusive working culture and environment. We welcome all applicants regardless of background.

Report to:

Professor Carlos Cid

Compensation & Benefits:

In accordance with the OIST Employee Compensation Regulations

Benefits:

- Relocation, housing and commuting allowances
- Annual paid leave and summer holidays
- Health insurance (Private School Mutual Aid)
- Welfare pension insurance (kousei-nenkin)
- Worker's accident compensation insurance (roudousha-saigai-hoshou-hoken)
- Access to Child Development Center
- Access to Schooling Options
- Language Education

- [Resource Center](#) (Daily Life Support in Okinawa)

Term:

Full-time, fixed term appointment for 1 year/2 years. Contract initially with 3-month probationary period (inclusive). This contract may be renewed.

Working hours:

9:00-17:30 (Discretionary)

How to Apply:

Apply from [HERE](#)

Submission Documents:

Applications should be in the form of a **single pdf file** with:

- Cover letter, outlining the motivation for applying for the position, research interests, experience and qualifications of relevance for the position;
- CV with a list of publications;
- Names and contact information of two referees, one of which should be a previous employer.

* Prior to the start of employment all new hires are required to successfully complete a background check. Personal information including employment history and academic background should be submitted to third-party administrators after a conditional offer of employment.

Contact Address:

For informal enquiries about the opening and positions, please contact: carlos.cid@oist.jp

Application Due Date:

Applicants will be considered until the positions are filled, but submission by **31 January 2024** will guarantee full consideration.

Declaration:

∗ OIST Graduate University is an equal opportunity, affirmative action educator and employer and is committed to increasing the diversity of its faculty, students and staff. The University strongly encourages women and minority candidates to apply.

∗ Information provided by applicants or references will be kept confidential, documents will not be returned. All applicants will be notified regarding the status of their applications.

∗ Please view our policy for rules on external professional activities (https://groups.oist.jp/acd/information-disclosure/).

∗ Further details about the University can be viewed on our website (www.oist.jp).