PhD position (M/F) – Thesis offer (M/F)

(Reference: DS_RA_PhD_OLIGOARCHIVE_062022)

Research topics	**Data-intensive systems, HPC, data analytics, DNA storage, bioinformatics**
Department	Data Science
Publication date	20 June 2022
Start date	ASAP
Duration	Duration of the thesis

Description

We are looking for a talented Ph.D. candidate to help us advance state of the art in data-intensive systems design. The candidate will be embedded in the Data Science department at EURECOM, and will be supervised by Dr. Raja Appuswamy.

Dr. Appuswamy's group focuses on high-performance algorithms, methods, and system development for data-intensive application domains like computational biology, molecular information storage, hybrid transactional and analytical processing. Dr. Appuswamy is a PI in several prestigious European and French research projects on topics like DNA storage, cloud/edge computing, and computational methods for precision oncology.

The candidate will be able to pursue interdisciplinary research and choose from a broad range of research topics and application areas. The recent work of our students has led to publication in prestigious journals and conferences [1], awards [2], and invited internships at world-renowned institutes like CERN.

Requirements

- Masters degree in Computer Science with strong algorithmic knowledge (Knowledge of genomic data analysis is a plus)
- Excellent programming skills in C++ (Parallel programming with GPU/FPGA is a plus)
- Excellent written and oral communication skills (English)

What we offer

- Strong international research environment with supervision from experienced faculty.
- Opportunities to collaborate with renowned scientists worldwide.
- Well-paid Ph.D position, in an area known for both its beauty and tech ecosystem (Sophia Antipolis).

Application

The position is available immediately, and the application evaluation will also start immediately, so early applications are encouraged. Interested individuals should submit the following documents (in English):

- Curriculum Vitae, including your current contact address, transcript of certificates and grades (with a list of university courses taken), and previous publications (if any)
- Motivation letter including research and education perspectives
- Contact information for 2 referees at your current and/or previous affiliations

Applications should be submitted by e-mail to raja.appuswamy@eurecom.fr and secretariat@eurecom.fr with the reference: DS_RA_PhD_OLIGOARCHIVE_062022

Postal address CS 50193 - 06904 Sophia Antipolis, France

Contact raja.appuswamy@eurecom.fr, secretariat@eurecom.fr

[1] https://bmcbioinformatics.biomedcentral.com/articles/10.1186/s12859-021-04162-z

[2] https://www.intel.com/content/www/us/en/newsroom/news/intel-announces-oneapi-challenge-winners.html#gs.x4b637

All of our positions are open to people with disabilities. EURECOM has a disability referent to accompany, advise and provide support if necessary.
EURECOM, as part of its gender equality plan, encourages female applications for positions in IT/new technologies, traditionally occupied by men.
EURECOM carries out positive actions within the framework of its CSR policy.

EURECOM is a French graduate school and a research center in digital sciences based in the international science park of Sophia Antipolis, which brings together renowned universities such as Télécom ParisTech, Aalto University (Helsinki), Politecnico di Torino, Technische Universität München (TUM), Norwegian University of Science and Technology (NTNU), Chalmers University (Sweden) and Czech Technical University in Prague (CTU). The Principality of Monaco is a new institutional member. The Institut Mines-Télécom is EURECOM's founding member.

EURECOM benefits from a strong interaction with the industry through its specific administrative structure: Economic Interest Group (kind of consortium), which brings together international companies such as: Orange, BMW Group Research & Technology, Symantec, Monaco Telecom, SAP, IABG.

EURECOM deploys its expertise around three major fields: Digital Security, Data Science and Communication Systems. EURECOM is particularly active in research in its areas of excellence while also training a large number of doctoral candidates. Its contractual research is recognized across Europe and contributes largely to its budget.

Thanks to its strong ties set up with the industry, EURECOM was awarded the "Institut Carnot" label jointly with the Institut Telecom right from 2006. The Carnot Label was designed to develop and professionalize cooperative research. It encourages the realization of research projects in public research centers that work together with socioeconomic actors, especially companies.