Chair in Cybersecurity

CentraleSupélec, campus of Rennes

Position: Researcher, fixed-term contract of 5 years, in the field of Cybersecurity

Keywords: computer sciences, cyber security, cyber defense, vulnerability analysis

Context

Cyber security (especially cyber defence) has been identified as a strategic axis for the Brittany Region in late 2013 with the creation of the Cyber Division of Excellence (PEC, Pôle d'Excellence Cyber). This chair in partnership with INRIA and DGA-MI and with the support of the Regional Council of Brittany, fits into this context. It is one of the components of the High Security Laboratory (LHS) of the PEC. Two objectives are targeted: the first is to develop a research topic considered important by the stakeholders, but today little covered by Breton research teams. The second is to participate in technology transfer activities of LHS, by establishing contacts with local and national industry. The position is within the LHS, which is hosted by the Inria Rennes Bretagne Atlantique Center in Rennes.

Missions

The main mission of the chair holder is a research mission and the leadership of a team on a new theme. The Chair partners are committed to a horizon of 3 years to fund a team of ten people: the chair holder, doctoral and post-doctoral students. The chair will establish close collaboration with an expanded network, comprising in particular other national academic teams working on the topic of cybersecurity. It will have a strong regional component, focused on Brittany, in connection with academic stakeholders, DGA-MI and industrial sector of defence already present in the region. The chair should have a high international visibility, particularly through the invitation of researchers and hosting students from different regions of the world, conferences and international seminars organization, and strengthening cooperation with other international teams on the theme of cybersecurity. The chair older may also participates in its areas of expertise, in initial training and continuing education at CentraleSupélec.

Research Area

Research will focus on understanding the threat and vulnerability analysis of military and civilian systems. The following themes have been identified as essential to address this issue:

- vulnerability research by (semi-)automatic static, dynamic or hybrid analysis, or by differential analysis,
- classification of vulnerabilities and assessment of their severity,
- detection and mitigation techniques.

The objective is to be limited to technical aspects: the identification of the attackers, the purpose of the attack is not in the field of research.

Required profile
- PhD in Computer Sciences
- For applicants from the French higher education system or industry: accreditation to supervise research (HDR)
- For international applicants: to have demonstrated equivalent capacities in the field of research with a strong research record: high level publications, PhD advising, response to projects calls and project management, etc.)
- Ability to work in a team
- Having the ambition to develop research activities of high international level.

Status
Fixed-term contract of public law, Professor level, for a period of 5 years.

Schedule
Vacancy on 1 March 2016.
Application before: 12 / 18 / 2015

Information
Ludovic Mé – Responsible for the research team CIDRE
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http://www.rennes.supelec.fr/ren/rd/cidre/

Staff Department
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Application
Application file, in pdf format, with a letter of motivation, a detailed CV (teaching experience, research, mobilities, publications, ...), a copy of an identity document, an integration project in the team and documents that attest from experience, must be sent by email only to the two contacts below before (date to be defined later):
philippe.h.martin@centralesupelec.fr
ludivine.membribe@centralesupelec.fr