Professor (with special responsibilities) in Algebra with Applications

DTU Compute at the Technical University of Denmark invites applications for a position as Professor (with special responsibilities) in Algebra with Applications

DTU Compute is a department with the overall mission of contributing to research, development and education within applied mathematics and computer science

The professor will be attached to the section for Mathematics one of the 11 sections comprising the Department employing approximately 325 persons including presently a faculty of 90.

Responsibilities and tasks
The position covers research and research-based teaching including:

- Research and scientific dissemination within the area of algebra with applications, in particular in coding theory and/or cryptography
- Research-based teaching (with associated examination duties)
- Academic leadership - in order to strengthen and develop the specific field
- External collaboration
- Other duties:
    - Innovation and/or public-sector consultancy
    - Knowledge sharing with the public
    - Educational guidance and supervision of assistant professors and researchers
    - Academic assessment work.

The successful candidate is expected to have extensive relations to other international research groups. The new professor is also expected to establish collaboration with other research groups within DTU Compute.

The new professor should participate actively in the effort of obtaining external funding.

The professor is expected to participate in teaching at the bachelor-, master- and PhD levels.

A position as Professor with Special Responsibilities is held for a limited time period and involves all the usual duties associated with a full professorship, as well as fixed-term specific duties which will vary according to the research program.

Qualifications
Professors with special responsibilities are expected to make a special effort as regards research/innovation and research management. Generally speaking, professors with special responsibilities are expected to perform over and above the qualification requirements for the post which are as follows:

- Extensive original scientific output within the area of applications of algebra/algebraic geometry in coding theory and/or cryptography.

- Documented and successful teaching experience at various different levels within the courses offered by the university, particularly at the PhD level.
- A track record of international collaboration.
- Management experience.

Assessment

In the assessment of the candidate consideration will be given to

- the candidate's qualification for handling the special, function-related assignment(s) that are associated with the position
- scientific production at international level, research potential and ability to lead and develop a research team
- the ability to teach
- the ability to promote and utilize research results
- experience with innovation activities
- an all-round experience basis, including international experience
- the ability to contribute to the development of the department's internal and external cooperation
- the ability to attract funding to the research area
- visions within the research area

Salary and appointment terms

The appointment will be based on the collective agreement with the Confederation of Professional Associations. The allowance will be agreed with the relevant union.

The position is available for a 5-year period and may be extended for up to 3 years more.

Further information

Further information may be obtained from Head of Department, Professor Helle Rootzen tel.: +45 45253370

You can read more about DTU Compute at www.compute.dtu.dk

Application procedure:

Please submit your online application no later than **XXX 2013**. Apply online at www.career.dtu.dk.

Applications must be submitted as **one pdf file** containing all materials to be given consideration. To apply, please open the link "Apply online," fill in the online application form, and attach **all your materials in English in one pdf file**. The file must include:

- Application (cover letter) addressed to the President
- CV
- List of publications indicating scientific highlights
- Documentation of teaching experience
- A plan for future research

All interested candidates irrespective of age, gender, disability, race, religion or ethnic background are encouraged to apply.