

PhD fellowship in Computational RNA Biology

**Center for non-coding RNA in Technology and Health
Department for Veterinary Clinical and Animal Sciences
Faculty of Health and Medical Sciences
University of Copenhagen**

Center for non-coding RNA in Technology and Health

The Center for non-coding RNA in Technology and Health (RTH), <http://rth.dk>, applies a multidisciplinary research strategy in the area of non-coding RNAs (ncRNAs) involving bioinformatics as well as experimental analyses. The center has an open 3 year PhD position in Computational RNA Biology, with start 1 May 2014 or soon as possible thereafter.

Background

Noncoding RNAs (ncRNAs) have shown to be a highly abundant class of genes which play numerous important roles in the cell. NcRNAs often contain RNA structure which plays a role in function; however, many RNAs do also function through their interactions to other ncRNAs.

Job description

The current project involves developing time and memory efficient algorithms to search for RNA molecules (of which some are genes) interacting with each other. Doing this on a scale involving a full genome is non-trivial due to the complexity of computational algorithms for RNA-RNA interactions. However, by employing efficient filtering strategies and simplified models this becomes feasible. A further goal in the project is also to develop efficient design of interfering RNAs, which subsequently can be used in the design of knockdown experiments.

Qualification requirements

The applicant should hold professional as well as personal skills and qualifications as stated below:

- A master degree in computational biology, computer science, bioinformatics, or similar
- Strong experience with algorithm development
- Strong experience with Perl or Python (or similar)
- Strong experience with C or C++
- Possess good interpersonal skills
- Be excellent in English, writing and speech

The following are not formal requirements, but emphasis will be given to candidates fulfilling these criteria:

- Formal training in suffix arrays
- General knowledge about RNA structure and folding, RNA gene search algorithms, and algorithms for structural alignment of RNAs and RN
- RNA interactions
- Insight in statistics

Applicants should to the best extend possible emphasize and include documentation for the skills.

Terms of employment

The position will be filled according to the Agreement between the Danish Ministry of Finance and the Danish Confederation of Professional Associations. The post is covered by the Protocol on Job Structure. The basic annual salary for PhD students starts at DKK 300.000 (approx. Euro 40.500). In addition, the successful candidate will enter a pension fund scheme as well as paid holidays after one year. Operating costs such as course fees, project expenses, travel and stays abroad, etc. are subsidized by the project.

Place of employment

RTH is mainly located on the Frederiksberg campus, close to the centre of Copenhagen. We are an interdisciplinary centre with

national as well as international collaborators and visits to the partners are organized when necessary. Our research environment is highly international and stimulating. We frequently organize seminars, workshops, PhD summer schools with international speakers and have retreats with our international collaborators.

Application procedure

Apply by clicking "Apply online" below.

Applications - in English - must include:

- Cover Letter applying for and detailing your motivation and background for applying (max. one page)
- CV incl. education, research experience, programming skills and other skills relevant for the position
- Diploma and transcripts of records (BSc. and MSc.). If the MSc. degree is from a foreign university, it must be documented that it is on a level equivalent with a Danish MSc
- Other information for consideration, e.g. list of publications (if any)
- Personal Recommendations
- A maximum of 3 relevant scientific works (e.g. peer reviewed papers) which the applicant wishes to be included in the assessment
- If the applicant has another nationality than Danish and doesn't have English/

American as native language, a TOEFL (+TSE) (minimum score 560 pts. (paper based) or 83 pts. (internet based)) or IELTS (minimum score 6.0 pts.) official certificate is mandatory

The applicant will be assessed according to the Ministry of Science, Technology and Innovation Executive Order no. 284 of 25. April 2008.

Application deadline

The applications must be received **no later than Maj 8th 2014**. Application received after the closing time will not be considered.

Questions

For further information about the position please contact:

- Scientific content, please contact: Professor Jan Gorodkin, e-mail: gorodkin@rth.dk, phone +45 3533 4704, +45 3533 3578 (direct).
- Application procedure and formalities please contact: Administrative Officer, Marie-Louise Rosenlund, e-mail: mlr@sund.ku.dk, phone: +45 3533 2898.

Foreign applicants may find the following links useful:

www.ism.ku.dk (International Staff Mobility) and www.workingconditions.ku.dk.

Deadline: 8 May 2014

Employer: Department of Veterinary Clinical and Animal Sciences

Homepage: <http://ikvh.ku.dk/english/>

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Frist: 08-05-2014

Arbejdsgiver: Det Sundhedsvidenskabelige Fakultet

Tilbage

Udskriv