



## The Novo Nordisk Foundation Center for Protein Research

### Postdoctoral position in MS-based proteomics

**Title:** *Postdoc, Department of Proteomics*  
**Tenure:** *Two years*

#### **Employment conditions:**

The Department of Proteomics at the Novo Nordisk Foundation Center for Protein Research (CPR) is offering one postdoctoral position in the group 'Proteomics Technology Development & Application'. Employment will be in accordance with the provisions of the collective agreement between the Danish Government and AC (the Danish Confederation of Professional Associations). The position will be at the level of postdoctoral fellow and the salary depends on seniority, as agreed between the Ministry of Finance and AC, around DKK 31.000-33.000/month (approximately EUR 4.100-4.400/month). To the basic salary, a monthly contribution to a pension fund is added (17.1% of the salary), and a supplement could be negotiated, dependent on the candidate's experiences and qualifications. In all cases, the ability to perform the job will be the primary consideration, and thus we encourage all - regardless of their personal background and status - to apply.

The tentative start date is 1 April 2012 or soon thereafter, and the duration of the position is two years.

#### **Background:**

The research at the Department of Proteomics is headed by Professor Matthias Mann and consists of three independent groups lead by Dr. Chunaram Choudhary, Dr. Jesper V. Olsen, and Dr. Michael L. Nielsen respectively. The Department of Proteomics makes use of recent revolutionary breakthroughs in the technology of MS-based proteomics, and we aim at continuously improving the proteomic platform available. It is now possible to identify thousands of proteins in a wide variety of proteomes, spanning from prokaryotes to cancer tissues. Recent developments in quantitative proteomics also allow comparison to proteomes after stimulation or drug treatment. Other important biomedical capabilities of proteomics include the quantitative determination of post-translational modifications such as phosphorylation, ubiquitination, acetylation, methylation, PARylation and many others. Not least, proteomics is also able to determine protein-protein, protein-DNA or protein-drug interactions. Using these approaches we study cellular outcomes at 'systems-level' in response to different perturbations (such as growth factor stimulation, gene knockdown etc.). In addition to a state-of-the-art mass spectrometry facility, the department is also well equipped for the performance of follow-up studies using molecular biology, cell biology, and biochemistry techniques.

**Project description:**

The ideal candidate should be able to conduct independent and creative research, demonstrate scientific productivity, and show good interpersonal and communication skills. The postdoctoral fellow will work in the Department of Proteomics together with Associate Professor Michael L. Nielsen. The group aims at developing novel proteomic approaches for quantitative proteome analysis with an emphasized focus on post-translational modifications (PTMs). The candidate will focus on developing new MS-based technologies within the candidate's specialized scientific area, and apply them in relevant biological context. To achieve these scientific goals the postdoctoral candidate will use cutting-edge proteomics tools.

**General work description:**

- Develop novel analytical strategies for proteome-wide characterization of proteins and their PTMs
- Deciphering the biological role of investigated proteins and PTMs under various perturbations using state-of-the-art quantitative proteomics
- Analyze cross-talk between different PTMs
- Perform biological follow-up experiments on novel and interesting findings derived from the acquired proteomics screens

You can read more about planned projects on the Department of Proteomics' webpage, [www.cpr.ku.dk/groups/proteomics/](http://www.cpr.ku.dk/groups/proteomics/)

**Qualifications:**

- The candidate is required to have a PhD or equivalent degree in natural or medical science.
- Excellent scientific track record, including at least one publication as first author in a high quality, peer reviewed international journal.
- International experience is desirable.
- Prior experience in biochemistry, immunofluorescence microscopy, cell culture and/or protein chemistry techniques is desirable.
- Knowledge in genetics and biology, cell signaling, high-throughput protein-protein interactions, or chromatin biology would be considered a distinct advantage.
- Prior experience in high resolution mass spectrometry (LTQ Orbitrap Velos or Q-Exactive) is desirable, but not a requirement.
- Good communication skills in English, both oral and written.
- Knowledge in bioinformatics or skills in statistical computational environment such as "R" is an advantage, but not a requirement
- An analytical aptitude for devising innovative scientific or technical solutions.
- Demonstrate enthusiasm, motivation, flexibility and confidence. The candidate is expected to drive his/her own research project, actively participating in laboratory meetings and helping to train students.

## To apply

In order to be taken into consideration for this position you must fill in an [online evaluation form](#). Furthermore you must also send your application by clicking "Apply online" below. The application must include the following appendices:

- A current curriculum vitae
- Copies of relevant diplomas
- A complete list of publications
- The evaluation form.

The **deadline for applications** is 26 February, 2012. Any applications received after this date will **not** be considered. Applicants failing to submit the online evaluation form will **not** be considered either.

[Apply online](#)

For further information please contact [contact@cpr.ku.dk](mailto:contact@cpr.ku.dk)

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**Deadline:** 26-02-2012

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