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The department has more than employees and has a turnover of million SEK. We have a large number of externally funded research projects, often with international cooperation and we see continued good growth in our subject area. The PhD-student will work in the border area between chemistry, physics and materials theory; more specifically, with the synthesis and characterizations of new magnetic materials. The project will be carried out in the group of Associate Professor Martin Sahlberg at the Department of chemistry-Angstrom. The project is focused on synthesis and characterisation of new alloys and compounds, determination of crystalline- and magnetic structures etc. The aim is to find new materials for applications within industry for e. Synthesis using high temperature methods such as electric arc furnace, induction furnace and possibly solid-gas methods will be used. Characterization will primarily be conducted using diffraction methods like single crystal X-ray diffraction, Neutron diffraction and in-situ measurements using synchrotron radiation. The main duties of doctoral students are to devote themselves to their research studies which includes participating in research projects and third cycle courses. A person meets the general admission requirements for third-cycle courses and study programmes if he or she: Very good oral and written proficiency in English. Good knowledge of high temperature synthesis, diffraction X-rays and Neutron and general knowledge in inorganic chemistry. Applicants should be highly motivated and interested in research in chemistry and physics, as well as research on sustainable energy. Practical experience in development of novel alloy systems, magnetism and knowledge of different synthesis and analysis techniques are considered strong merits. The applicant should be willing to work in an international and interdisciplinary research environment, and should have social competence to work in a team as well as independently. Consideration will also be given to good collaborative skills, drive and independence, and how the applicant, through his or her experience and skills, is deemed to have the abilities necessary for successfully completing the third cycle programme. The application should include a statement of research interest, CV, certificates of exams, degrees and grades, a copy of Master thesis, published article or relevant materials, if available. Also, contact information of at least two reference persons should be included. We welcome applications from all sections of the community and from people of all backgrounds. According to local agreement Local collective agreement for doctoral students and students. Temporary position for four years. For further information about the position, please contact: Are you considering moving to Sweden to work at Uppsala University? You are also welcome to contact the International Faculty and Staff Services at [ifss@uadm.uu.se](mailto:ifss@uadm.uu.se).

**Chapter 2 : Chemistry - Biodiversity Heritage Library**

*Photoluminescent metallo-•biopolymers are assembled via a facile and versatile plug-and-play approach. Integration of terpyridine and then lanthanides into genetically encoded elastin-like polymers yields emitting platforms displaying an array of tunable luminescent colors across the visible and near-infrared regions.*

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*F. Weigend and R. Ahlrichs, "Balanced basis sets of split-valence, triple zeta valence and quadruple zeta valence quality for H to Rn: design and assessment of accuracy," Physical Chemistry Chemical Physics, vol. 7, no. 18, pp. ,*

## Chapter 8 : PhD in inorganic chemistry | EURAXESS Belgium

*Our simulations show how other "magic number" ratios of components can be obtained by modulating the topology of a framework and the noncovalent interactions between component types, a finding that may aid the rational design of functional multicomponent materials.*

## Chapter 9 : Heald, Colette | MIT Department of Earth, Atmospheric and Planetary Sciences

*However it assumes no knowledge of the subject before you read it, though the math is no holds barred, you dont need to know any physics beforehand. I want something like this except for chemistry. Last chemistry class I took was 4 years ago and I was on too many drugs to remember most of it.*