PhD position
research assistant (m/w/d)

**75% TV-L E13** limited to 3.75 years

Collaborative Research Center (Sonderforschungsbereich)/Transregio by the German Research Foundation (Deutsche Forschungsgesellschaft, DFG)

**HYP*MOL: Hyperpolarization in molecular systems - Porous materials for pumping nuclear hyperpolarization of small molecules**

We are looking for a PhD student to work on the above mentioned DFG project starting in **October 2023**.

We offer a collegial and inspiring work environment in which an innovative approach to nuclear hyperpolarization in porous materials will be explored. The potential of metal-organic frameworks as host material for polarization agents will be investigated. Thus, this research project forms an intersection between fundamental research and applied physics.

**Main activities:**
- (ONP)NMR measurements using a field cycling setup
- further development of the field cycling setup
- optically detected magnetic resonance (ODMR) measurements including confocal microscopy
- magnetic field dependent photoluminescence
- participation in publications

**Requirements:**
- university degree in the field of physics or similar (M.Sc.)
- experimental experience in ONP/NMR/ODMR and/or in an optical lab
- sound knowledge of the physics of spin interactions

**Desirable qualities:**
- basic knowledge in chemistry
- programming skills (Python)
- knowledge in nuclear hyperpolarization

If you have any question do not hesitate to send an email to ralf.wunderlich@uni-leipzig.de.

Please apply via Info@Hypmol.net with a cover letter explaining your motivation, your CV and a list of publications in a single PDF.

**Application deadline: 18 JULY 2023**