中国科学院精密测量科学与技术创新研究院
INNOVATION ACADEMY FOR PRECISION MEASUREMENT SCIENCE AND TECHNOLOGY, CAS

Multiple Tenured Faculty Positions for "State Key Laboratory of Magnetic Resonance Spectroscopy and Imaging" at the Chinese Academy of Sciences

The **State Key Laboratory of "Magnetic Resonance Spectroscopy and Imaging"** (affiliated with the Innovation Academy for Precision Measurement Science and Technology (APM), Chinese Academy of Sciences (CAS)), is inviting outstanding scholars to join the research group led by the Director of the State Key Laboratory. We offer genuine tenured faculty positions with highly competitive compensation, with terms negotiated on a case-by-case basis. The State Key Laboratory of Magnetic Resonance Spectroscopy and Imaging is restructured and optimized from the **State Key Laboratory of Magnetic Resonance and Atomic and Molecular Physics (established in 1986)**, and the CAS Key Laboratory of Magnetic Resonance in Biological Systems. In 2019, the APM was established by merging the Wuhan Institute of Physics and Mathematics of the CAS (founded in 1958) and the Institute of Geodesy and Geophysics of the CAS (founded in 1957).

Key Research Directions (but not limited to):

1. Novel RF arrays for human MRI (3T, 5T, 7T and above), and B0/B1 shimming
2. Low-field, miniaturized, portable MRI systems for point-of-care applications (RF arrays and shimming hardware & software development)
3. Sequence development
4. Artificial intelligence, image reconstruction, signal processing

The State Key Lab research covers a wide range: unconventional MR signal enhancement theories and technologies such as hyperpolarization and ultra-low field, multi-nuclear MRI methods and technologies, high-sensitivity in situ molecular magnetic resonance methods, techniques, as well as artificial intelligence technologies.

If interested, please contact us, and we will forward your inquiry to the relevant research groups.

- Positions available include tenured Associate and Full Professors, Assistant Professors, Postdoctoral Researchers, RAs, and Doctoral/Master Students.
- The positions emphasize hands-on skills with relatively lower requirements for publications.
- Candidates with a Ph.D. in the MRI field will be given priority. Please send a message to the research group.

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WeChat QR code:

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“磁共振波谱与成像”全国重点实验室 课题组招聘

磁共振波谱与成像全国重点实验室（隶属中国科学院精密测量院）诚邀优秀学者加盟，参与实验室主任课题组的科研工作。岗位为真正意义上的终身教职，待遇优厚，具体可“一事一议”。精密测量院由原中科院武汉物理与数学研究所（1958年创建）和测量与地球物理研究所（1957年创建）整合组建。磁共振波谱与成像全国重点实验室在**原“波谱与原子分子物理”国家重点实验室（始建于1986年）**基础上优化重组，已获国家正式批复，是国内唯一以磁共振研究为核心方向的全国重点实验室（National-level Key Laboratory）。

重点需求方向（但不限于以下）：

1. 人体高场磁共振射频线圈（3T、5T、7T and above）及B0/B1匀场系统
2. 低场、小型化、便携式MRI系统用于临床现场应用（包括射频匀场等软硬件开发）
3. 序列开发
4. 人工智能、图像重建、信号处理等
5. 临床应用

磁共振**全国重点实验室研究方向广泛**：超极化、超低场等非常规磁共振信号增强理论与技术、多核磁共振方法及技术、原子磁力计和激光探测磁共振、高灵敏原位分子磁共振方法、技术及多学科交叉应用、人工智能技术。如有兴趣，请联系我们，**我们将转达给相应的课题组**

职位包括**正高级和副高级研究员（tenured）、助理研究员、博士后、科研助理、及硕博研究生**等。我们积极协助申报国家级、中科院以及湖北省和武汉市的人才项目。建议尽早与我们联系以便充分准备材料。

- 岗位注重动手能力，**对文章相对要求不高。**
- 具备MRI领域博士学位者优先考虑。优秀者可重点培养获得快速提拔。

如有兴趣，请联系本课题组的老师 电子邮箱：（微信联系方式已附上）

kangyan@apm.ac.cn 和 ningli@apm.ac.cn

通过整合原波谱与原子分子物理国家重点实验室、国家大型科学仪器中心·武汉磁共振中心和中国科学院生物磁共振分析重点实验室组建“磁共振波谱与成像全国重点实验室”，聚焦磁共振前沿理论、超灵敏磁共振关键技术和磁共振原位分子科学三个研究方向，实验室组建初期已拥有固定研究人员74人，主要由正研究员和副研究员组成。经过六十余年的发展，逐步形成了以磁共振波谱与成像为核心的高水平研究集体，并自主培养出我国磁共振领域的12位杰青。现有中国科学院院士2人、“国家自然科学基金创新研究群体”2个、“全国创新争先奖”获得者1人、“国家杰青”9人。