

## ***Postdoctoral research fellow and Staff Scientist positions Weizmann Institute of Science, Rehovot, Israel***

### ***Postdoctoral research fellow: Multidisciplinary MRI and fMRI method development focused on human neuroscience***

We are seeking a postdoctoral research fellow for an advanced MRI lab focused on ultra-high field (7T) MRI development. Our lab's interests include development of electrical properties imaging, specifically within the brain, aiming to provide new biomarkers and more direct measurement methods of neural activation, as well as metabolic spectroscopic imaging. These topics go hand-in-hand with our study of fast and high-resolution imaging acquisitions, parallel transmit capabilities, as well as research of artificial materials for MRI to improve local SNR and/or RF field distribution. **Contact:** Interested applicants should send a cover letter and CV to Dr. Rita Schmidt, Department of Neurobiology, Weizmann Institute of Science, email: [rita.schmidt@weizmann.ac.il](mailto:rita.schmidt@weizmann.ac.il)

### ***Staff Scientist position:***

The Weizmann Institute of Science seeks candidates for the position of scientific developments of human ultrahigh field (7T) MRI technologies. The candidates will participate in developing exciting new imaging technologies at the Institute's ultra-high field (7T) facilities, housed within the National Azrieli Brain Center Institute, an exciting multidisciplinary national center for advancing the frontiers of brain research. The position includes:

Collaborating with Institute scientists in developing new radiofrequency excitation pulses and sequences and analysis pipelines for studying the brain.

Developing new hardware solutions to improve imaging resolution, speed and reliability.

Implementing and testing of new, cutting-edge scanning methodologies, protocols and sequences. **Contact:** Interested applicants should send a cover letter and CV to Dr. Assaf Tal, Department of Chemical and Biological Physics, email: [assaf.tal@weizmann.ac.il](mailto:assaf.tal@weizmann.ac.il).

### **Requirements**

Essential: A background (M.Sc. and above) in engineering / physics / computer-science.

Candidates should have **strong quantitative skills**. Candidates will be expected to be **highly independent**, capable of learning and adapting on the job.

Desirable: Prior knowledge in some aspects of magnetic resonance and/or radiofrequency engineering. Good programming skills in at least one high level language (e.g. MATLAB, C++, Python) are desirable as well.

### **Work Environment**

The candidates will be part of a vibrant research community at the Institute, consisting of leading scientists from all disciplines, ranging from neuroscience to physics, chemistry and engineering. The Weizmann Institute provides an outstanding intellectual environment within a beautiful campus. It houses Israel's only ultra-high field (7T) research-dedicated MRI scanner for humans, a Siemens Terra system, as well as multiple other world MRI facilities (3T Siemens Prisma, 15.2T and 9.4T preclinical Bruker systems). The scanner is part of the Institute's commitment to brain imaging and is the center piece of the National Azrieli Brain Imaging Center.