Postdoctoral Position: Radiofrequency Coils and Metamaterials for MRI
We are seeking excellent candidates for a postdoctoral position at the University of Alberta. Our team aims to design, simulate and build innovative radiofrequency (RF) electronics and other devices to improve MRI scanners used both in hospitals and research facilities using emerging RF metamaterial technology. The successful candidate will expand on our recent successes in the application of RF metamaterials to enhance RF detection and safety. For more information visit www.metaliner.ca.

Qualifications:
The applicant must have a solid background in electromagnetics, including theory and simulation, and a strong interest in MRI. Other requirements include:
- PhD in physics, engineering or related disciplines;
- strong publication record and references;
- strong communication skills in English;
- demonstrated practical experience with RF or microwave electronics, instrumentation, fabrication, simulations and/or measurements;
- experience with RF hardware for MRI, and MRI data acquisition and processing are preferred;
- ability to work in a team environment as well as independently.

Position and Application:
The initial term of the position is 1 year, with renewal possible depending on performance and funding. Starting date will be in the first months of 2023.
To apply send your CV, including a list of publications and achievements, with a cover letter to: dezanche@ualberta.ca

About us:
Our interdisciplinary research team includes MRI and RF experts from the department of Oncology (Faculty of Medicine and Dentistry) and metamaterial pioneers from the department of Electrical and Computer Engineering (Faculty of Engineering). The team’s laboratory and computing facilities are located in the University's main campus, which includes two hospitals with a variety of research and clinical MRI scanners.
The University of Alberta is one of Canada’s top teaching and research universities, with an international reputation for excellence across the humanities, sciences, creative arts, business, engineering, and health sciences. The University of Alberta offers close to 900 undergraduate, graduate, and professional programs in 18 faculties on five campuses, including one rural and one francophone campus, and has more than 275,000 alumni worldwide.
Edmonton is the capital city of Alberta and, while being Canada’s 5th largest city, it is one of the more affordable. Edmonton’s expansive Saskatchewan River valley and nearby parks are home to unique natural scenery and plentiful outdoor recreational opportunities.

All qualified candidates are encouraged to apply; however, Canadians and permanent residents will be given priority. The University of Alberta is committed to an equitable, diverse, and inclusive workforce. We welcome applications from all qualified persons. We encourage women; First Nations, Métis and Inuit persons; members of visible minority groups; persons with disabilities; persons of any sexual orientation or gender identity and expression; and all those who may contribute to the further diversification of ideas and the University to apply.