



Industry Post-Doctoral Fellowship in Medical Imaging Devices

Join a collaborative and innovative team that is developing and manufacturing novel fluorescence imaging solutions to improve wound care and other medical applications world-wide. Founded and based in Toronto, MolecuLight Inc. specializes in non-invasive, real-time imaging solutions for health care applications. MolecuLight's first product, the MolecuLight i:X, visualizes bacterial and tissue fluorescence in real-time, providing transformative information to wound care clinicians.

General Summary

Industrial post-doctoral fellowship programs target highly motivated, intellectually hungry scientists who are considering a scientific career in industry. These individuals have a strong incentive for project success and high-impact published results. The successful candidate will gain vital industry experience while bringing academic rigor and curiosity to MolecuLight's scientific team.

THE CANDIDATE

We are looking for an individual who is passionate about empirical research and answering hard questions with data. This individual will be able to take ownership of a project to creatively turn data into information, information into insight and insight into clinical direction, product guidance and business decisions.

This individual will provide expertise in medical imaging, image and data analysis, histopathological analysis, statistical report development, and data interpretation to support evidence-based decision making. The individual will be encouraged to communicate their findings through publications and conference presentations.

Responsibilities:

- Manage large amounts of data; merge data sources; ensure consistency of datasets; must be able to handle datasets of multiple types - textual, categorical and numerical
- Identify, analyze, and interpret trends or patterns in complex data sets, including medical imaging and histopathology data. Create predictive models based on those patterns
- Filter and "clean" data, and review computer reports, printouts, and performance indicators to locate and correct code problems
- Present and communicate the data insights/findings to both specialists as well as a non-technical audience
- Create visualizations to aid in understanding data

Qualifications:

- PhD in medical or imaging related discipline
- Strong knowledge of statistics and experience using statistical packages for analyzing large datasets (R, Minitab, SPSS, SAS, Excel, etc)
- Technical expertise regarding data models, database design development, data mining and segmentation techniques

- A passion for empirical research and answering hard questions with data
- Strong analytical skills with the ability to collect, organize, analyze, and disseminate significant amounts of information with attention to detail and accuracy
- Fluent with one or more software development languages

RELATIONSHIPS

- The position reports directly to the Manager of Scientific Affairs. Internally, this position will work closely with the Chief Technology Officer and department of Clinical Trials. Externally, this position will liaison with key wound care clinicians and clinical trial partners.

Disclaimer

The above information on this job description and specification has been designed to indicate the general nature and level of work performed within this job. It is not designed to contain or be interpreted as a comprehensive inventory of all duties, responsibilities, and qualifications required.