Philips Research

Philips Research North America, Briarcliff Manor, NY

We simplify healthcare by focusing on the people in the care cycle – patients and care providers. Through combining human insights and clinical expertise, we aim to improve patient outcomes while lowering the burden on the healthcare system. Philips delivers advanced solutions for both health professionals, to meet the needs of patients, and empowered consumers for affordable healthcare whether in hospital or at home.

Philips Research North America (PRNA) has a broad range of activities in support of Philips innovations. We work together in multidisciplinary and multi-site project teams, often together with external collaborators and with partners in the Philips business units to develop new concepts and prototypes. We are located on a 100-acre campus overlooking the Hudson River, about an hour north of New York City.

We are expanding our efforts in advanced Clinical Decision Support Systems for diagnostic, therapeutic and real-time guidance. We concentrate on a variety of clinical application domains and on basic technical infrastructure that supports applied research. Application development is underway in the areas of predictive modeling, simulation, outcome management, context-aware platforms and evidence-based medicine. Collaborative relationships are maintained with universities, scientific institutions, academic organizations and governmental resources.

Biomedical Informatics Research Scientist/Engineer

We require a Ph.D. in biomedical engineering, electrical engineering, computer science, mechanical engineering or similar field, or a M.Sc. in one of these fields and 3-5 years relevant work experience. The candidate is expected to develop and validate algorithms, inference engines, and clinical decision support systems and applications for use in acute or sub-acute care settings.

The ideal candidate will demonstrate experience with

- Signal processing, data mining and analysis for clinical applications
- Machine learning techniques for pattern discovery
- Statistics, probability, and probabilistic reasoning
- Design, development, implementation and evaluation of clinical decision support applications for biomedicine

Skills and experience in some of the following areas would be a plus:

- Understanding of clinical workflow and practice developed through experience in working clinical environments
- Experience in and practical application of control systems theory and modeling
- Knowledge of the cognitive aspects associated with biomedical decision-making and probabilistic clinical reasoning
- General knowledge of healthcare and healthcare informatics

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