

## **Post-doctoral Fellowships for Interdisciplinary Research on Radiation Epidemiology and Statistics**

The Radiation Epidemiology (REB) and Biostatistics Branches (BB) of the Division of Cancer Epidemiology and Genetics at the National Cancer Institute/National Institutes of Health/Department of Health and Human Services seek qualified applicants for multiple post-doctoral fellowships for interdisciplinary research on statistical issues in studying the role of radiation in cancer etiology. The Division of Cancer Epidemiology and Genetics (DCEG) of the National Cancer Institute conducts a national and international program of population- and family-based studies to elucidate the environmental and genetic determinants of cancer. REB conducts research to identify, understand, and quantify the risks of cancer in populations exposed to medical occupational, or environmental radiations, and to advance understanding of radiation carcinogenesis. BB statisticians collaborate across wide variety of studies in DCEG and develop cutting-edge statistical methods in diverse areas such as study design, the analysis of correlated data, measurement error, statistical genetics, genomics, and risk-prediction.

Successful candidates for these positions will be jointly mentored by investigators from REB and BB. Depending on one's interest, projects may include the collaboration on radiation epidemiologic studies that require non-standard modeling of the dose-response relationship between radiation and cancer risk, the analysis of genetic susceptibility and treatment effects on secondary cancers, and the analysis of incidence data from cancer registries for evaluating secondary cancer risks related to radiotherapy treatment. Candidate will also be given flexibility to pursue research in broader statistical areas, such as measurement error, disease surveillance, longitudinal and spatial-temporal modeling that have applications beyond radiation epidemiologic studies.

Fellows will have opportunity to work together with a highly talented team of researchers with experience in radiation, statistics, epidemiology, dosimetry, and genomics. Access to data from a large variety of one-of-a-kind cohort studies (e.g., REB's signature cohort studies of cancer risks in children who underwent CT scans and a case-control study of children exposed to background radiation in the UK) would provide an excellent opportunity for identifying important problems, testing and validating the statistical methods and eventually applying them for improved analysis and interpretation of substantive studies. Fellows will have access to high performance computing facilities.

A Ph.D. in Statistics, Biostatistics or in a similar quantitative field is required. Individuals with both theoretical and applied backgrounds with strong computational skills are encouraged to apply. The appointments can continue up to three years and can be extended for an additional 1-2 years. For further information about the research program of the Division of Cancer Epidemiology and Genetics at NCI, and the Radiation and Biostatistics Branches within DCEG consult the website: [www.dceg.cancer.gov](http://www.dceg.cancer.gov).

Interested candidate should send a cover letter, curriculum vitae and three letters of references to: Ms. Adrienne Rolls, Biostatistics Branch, [Adrienne.rolls@nih.gov](mailto:Adrienne.rolls@nih.gov) Please contact Dr Amy Berrington de Gonzalez ([berringtona@mail.nih.gov](mailto:berringtona@mail.nih.gov)) or Dr Paul Albert ([albertp@mail.nih.gov](mailto:albertp@mail.nih.gov)) for questions about the positions.

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