



ESP Services

E = Editor; S=Statistician; P= Protocol Developer: Team that supports HJF-supported PIs on grant application services

ESP Services improved the probability for successful grant funding for New Investigators by 28% and for All Investigators by 18%.

ESP Services give you the expertise of an **editor** to polish your research funding proposals, a **statistician** to provide customized bioinformatics and computational support, and a **protocol developer** to provide regulatory document support as you design research studies.



Editorial

Our skilled editor will fine-tune your research plan and provide recommendations for improving flow, clarity, grammar and overall proposal quality. The editor will:

- Edit grant proposals for scientific content
- Assist with adding engaging graphics and visuals
- Make sure your proposal meets best-in-class standards



Statistical

Our biostatistician will provide a full range of proposal support by helping researchers design innovative experiments and write statistical methods for grant proposals. The biostatistician will:

- Provide customized statistical support
- Design current and emerging bioinformatics algorithms for data analysis
- Assist in grant applications, manuscript preparation, and development of oral and poster presentations



Protocols

Our protocol developer will guide you in creating a research plan that complies with all applicable regulations and ethical best practices. The protocol developer will also help you:

- Prepare human subjects documents for proposals
- Design IRB protocols and informed consent documents
- Create data management and sharing plans

Visit us online or contact us at rnatarajan@hjf.org to find out how HJF can help you with your research needs.



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ESP Services

Ramesh Natarajan, Ph.D.

ESP Services—Technical Editor and Protocol Writer

Ramesh Natarajan, Ph.D., is a subject matter expert, scientific advisor and technical editor with over 30 years of research experience in various biomedical fields. He has extensive animal and clinical research experience and has conceived, designed, facilitated, implemented and managed multiple research studies through his work as a program manager with the Combat Trauma Research Group at Naval Medical Center Portsmouth and as a principal investigator on grants awarded by the National Institutes of Health, the Department of Defense and the American Lung Association. Dr. Natarajan was also a professor of medicine and co-director of research at Virginia Commonwealth University.

Dr. Natarajan has served as a grant reviewer for NIH, the Department of Veterans Affairs, Congressionally Directed Medical Research Programs and the American Heart Association. He also served on several editorial boards, including the American Journal of Physiology and Frontiers in Bioscience.

Dr. Natarajan is available to consult with basic and clinical researchers on funding opportunity identification and project study design. He can also review and edit scientific documents for research grants, project reports and publications.

David King, Ph.D.

ESP Services—Biostatistician

David King, Ph.D. is a senior biostatistician with research experience in academia, industry and U.S. government. He earned a Ph.D. in Statistics from Arizona State University, served as a Lieutenant in the U.S. Navy and has experience and publications in finite mixture modeling, functional data analysis, large sample asymptotics, multilevel hierarchical models, disease epidemiology, survival analysis, clinical trial design and analysis, multi-compartmental models in biology, pharmacokinetics and pharmacodynamic models, applied multivariate analysis, and Bayesian inference of nonlinear dynamical systems.

Prior to joining HJF, Dr. King was a Visiting Assistant Professor at Indiana University, Bloomington (IU), where he taught graduate and undergraduate statistics courses and served as Ph.D. advisor for four epidemiology students. He has also held appointments as an Adjunct Professor at the University of Maryland, Northwestern University and at the Foundation for Advanced Education in the Sciences (FAES) on the NIH campus in Bethesda. In addition, Dr. King has published numerous peer reviewed articles in both statistics and biology and is a member of the American Statistical Association.

Dr. King is available to consult and to provide customized bioinformatics and computational support to researchers on study design and development, outcome measurement, determination of clinically important effect sizes, sample size estimation, data management and statistical methodology and analysis. He can assist investigators with grant applications, manuscript preparation and development of oral and poster presentations.

Emily Brede, Ph.D., RN

ESP Services—Protocol Developer

Emily Brede, Ph.D., RN, is a research psychologist and registered nurse with over 15 years of research experience. She has developed and coordinated research protocols in both military and civilian medicine, including for the Integrative Cardiac Health Project and the Center for Nursing Science and Clinical Inquiry at Walter Reed National Military Medical Center, the National Institute of Diabetes and Digestive and Kidney Diseases, and the Uniformed Services University's Department of Medical and Clinical Psychology.

Dr. Brede has experience with a variety of research designs, including randomized controlled trials, FDA Phase 1 and Phase 2 trials, ecological momentary assessment, prospective longitudinal cohort studies, multi-center studies, and meta-analysis.

Dr. Brede is available to consult with clinical researchers on clinical trials and other human research proposals. She can assist with proposal development, Institutional Review Board submissions, participant recruitment plans, regulatory compliance and data/resource sharing plans.