

## HJF's **ESP Services** give investigators and researchers more.

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.

These powerful services will **save time** for investigators by helping create a faster turnaround for more **successful** proposal submissions.

- Expert editorial and scientific guidance
- Dedicated resources focused on your specific research
- Assurance that your grant application is clear and complete



### **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:

- Ensure proposal compliance
- Help write and edit scientific reports
- 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 project support by helping researchers design experiments (including statistical analyses), improve data management, monitor data quality, analyze results, and write up statistical methods and results sections for presentation and publication. The biostatistician will:

- Provide customized statistical support
- Implement 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 help prepare animal and human research studies by providing technical, administrative and scientific support for the development and preparation of ethically compliant research protocols. The protocol developer will also:

- Serve as a liaison between investigators and other research staff and associates
- Help write animal or human use proposal sections
- Provide education and training on protocol development
- Assist with regulatory compliance and reporting post-award

### **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 20 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 sits 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.

### **Emily Brede, Ph.D., RN**

#### **ESP Services—Protocol Developer**

Emily Brede, Ph.D., RN, is a research psychologist and registered nurse with over 10 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. She currently serves as a peer reviewer for the Journal of Pain, Archives of Physical Medicine and Rehabilitation, and Pain Practice.

Dr. Brede is available to consult with basic and clinical researchers on animal and human research studies. She can assist with Institutional Review Board submissions, participant recruitment plans, regulatory compliance and post-award reporting.

### **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.