# Information for Applicants

**FY21-FY22 Program for Research, Innovations and Scholarship in Education**

**Overview**

This Department of Medicine (DOM) program aims to promote educational scholarship within the DOM,

through scholarly inquiry into educational pedagogy, assessment systems, curriculum design, innovative

educational programs etc. across the continuum of medical education- UME, GME and CME.

**Goals**

1. Enhance educational training and research initiatives across the DOM across the continuum of education.
2. Create a dynamic community of educational scholars.
3. Provide training and mentorship in educational research and scholarly activities.
4. Explore synergism with medical educational endeavors across departments at BWH.

**Specific Steps in Detail**

1. Program requirement:
   1. Attendance at all seminars.
   2. Scholarly output: Abstract for the annual DOM Medical Education Retreat and/or Medical Education Day at Harvard Medical School (HMS), other regional and national conferences and a first-author publication resulting from the project.
   3. Opportunities to present at future PRISE and BEI events.
2. For successful completion of the program, it is anticipated that Scholars will commit ~**8 hours / month** towards seminar attendance (2 hours) and their educational project design, implementation and evaluation (as required).
3. Scholars will also receive tuition to attend the 2-part **Harvard Macy Program for Educators**, each part 1-week long- Dates for 2022 to be announced. Scholars can opt to participate in one of the other Harvard Macy programs instead based on educational interests. See [www.harvardmacy.org](http://www.harvardmacy.org) for more details.
4. The Scholar is expected to design an **educational research project** that is developed under the guidance of their mentors.
5. The Scholar will write up the project for **publication** with the help of mentors.
6. Graduation with award of a **Medical Education Research and Scholarship Certificate**.

**Faculty**

Subha Ramani, MBBS, PhD, is the Director of the DOM PRISE Program. A c**ore group of expert faculty** from the DOM and BEI will lead seminars monthly. Between **October 1 and September 30**, scholars will participate in combined BEI-PRISE sessions as well as dedicated project consultation sessions. Sessions usually occur between 12 noon and 1:30 pm, exact dates and times will be announced in advance. All sessions are intended to be interactive workshops on core medical education research and scholarship topics with practical applications to individual projects and structured as follows:

* Journal club of core articles related to the seminar topic (some sessions)
* Interactive workshops
* Individual project development
* Guidance on project write-ups

**BEI-PRISE:** Educators from all BWH departments will attend the BEI-PRISE sessions. Through this collaboration with BEI, DOM scholars will be able to **interact with educators from other departments** and explore opportunities for research collaboration.

Scholars will be guided by educational leaders including Drs. Subha Ramani, Erik Alexander, Ed Krupat, Helen Shields and many others on their projects, related to study design, scope, data collection and analysis, presentation and manuscript writing.

**Sample syllabus**

**Overview of educational scholarship and applicable theories**

* Research compass
* Educational scholarship criteria
* Overview of research designs (quantitative and qualitative)
* Ethics and IRB
* Key education theories applicable to medical education
* Theoretical frameworks to guide medical education research

**Curriculum design**

* Framework for curriculum design
* Needs assessment
* Educational goals and objectives
* Curriculum implementation
* Frameworks for curriculum / program evaluation

**Overview of quantitative research**

* From topic of interest to formulating research questions
* Experimental study design
* Non-experimental study design
* Sampling
* Determining important educational outcomes and end points

**Overview of qualitative research**

* Approaches to qualitative research
* Research questions and steps
* Data sources and collection: Focus groups, Interviews, Observation
* Data analysis in qualitative research
* Methods to ensure rigor

**Survey design and development**

* Developing surveys
* Designing and testing survey measures
* Assessing knowledge and attitudes (subjective measures)
* Assessing competencies and behaviors (objective measures)

**Approach to assessment and program evaluation in medical education**

* Principles of assessment
* Criteria for rigor- reliability, validity
* Program evaluation frameworks

**Technology enhanced teaching**

* Applications of different technology formats
* Using simulation in teaching and learning
* Designing online learning formats
* Social media in education

**Presenting your scholarship**

* Preparing abstracts
* Preparing posters
* Writing manuscripts

**Expectations**

Applicants must have the support of their Division Chief (Fellowship Director for senior fellows) to devote the time, free of other responsibilities, to Program activities. Activities include required attendance at monthly seminars, completing assignments, and carrying out an individual project.

We anticipate a time commitment of:

* **2 hours/month for seminar participation**
* **3-4 hours/month for project-related work**
* **1-week in October and 1-week in May to participate in the Harvard Macy Program**

The Program Director will serve as one of the project mentors along with one or more co-mentors in a team approach to advise the scholar, guide study design, data collection and analysis and scholarship.