

Mobile App Gateway (MAG)
Request for Applications
Application Deadline: 11:59 p.m. ET, August 2, 2019

The Mobile App Gateway (MAG,) supported by the CTSI, is now accepting proposals for projects looking to create native smartphone apps for clinical research studies. The awards will cover effort to build an app using new functionality for RedCap, called MyCap. MyCap is based on ResearchKit/Research Stack and can create iOS and Android apps.

I. Purpose and Type of Award

The intent of this RFA is to enable Duke researchers to use new REDCap functionality, called MyCap, to create direct-to-patient study apps. MyCap enables researchers to capture participant/patient reported outcomes using mobile devices. For more information please see: <https://projectmycap.org/>

II. Priority

The MAG is interested in projects that will use at least a few features of the MyCap ResearchKit functionality. Features can be found here: <https://projectmycap.org/>

We are looking for all levels of complexity in the projects and will approach the builds in the order of complexity (i.e., easier projects first and more complex projects later as we build capacity and knowledge of the function).

I. Key Dates

Submission Deadline: **August 2, 2019**

Selection of Awardees: **September 2019**

Funding Period: **September 1, 2019 through August 31, 2020**

Note: The funding only covers effort for the REDCap MyCap project build, and all effort will need to be used by 8/31/2020. Studies using the apps will be expected to have obtained Duke institutional approval and start data collection no later than 2/28/2020. No other study-related support will be provided.

II. Eligibility

Proposals must be submitted by Duke regular rank faculty and comply with the Duke University Policy on PI Status in the Duke Faculty Handbook. Researchers holding an adjunct appointment are not eligible to apply. Non-Duke faculty, including staff and students, may be named as co-investigators.

Additional Criteria:

- No integration with Epic or other data sources
- Does not require custom development (fits into existing MyCap functionality)
- This app must be made available for free and not commercialized
- Selection does not eliminate the need for study protocol documentation and official IRB approval; all studies will require IRB approval prior to the study start (but not for funding and app build).

III. Funding

The research activities covered by this award will be limited to effort from the Duke REDCap team in the Duke Office of Clinical Research (DOCR) to build the proposed apps. Estimated costs are up to \$5,000 per app or approximately 110 hours. Awarded funds cannot be used for any other purposes, and unused funds will be retained by the MAG for use in further pilot programs. Selected teams will also receive up to 10 hours of support from Mobile App Gateway team to help with the development, design and testing, and regulatory approval of the app.

Note for Investigators: This award is internally funded and does not need to be routed through the Office of Research Administration (ORA).

IV. Application Procedures

The Duke Mobile App Gateway (MAG) uses the MyResearchProposal online application software to submit applications.

- To apply visit <http://bit.ly/myresearchproposal>, click on “Create New User” (or log in if you already have an account). Proposals must be submitted to the system by only one of the Principal Investigators.
- A step-by-step user’s guide for applying via the MyResearchProposal software is available - Please review the guide [here](#).
- Enter Access Code “MAG” then select the “Mobile App Gateway (MAG) MyCap 2019 opportunity and follow the instructions.

The application sections are:

- **Research team members:** Provide name, position, and departmental/school affiliations for each team member
- **Study aims:** Briefly describe your study’s primary aims
- **Project description:** Include patient population, basic study procedures, and measures.
- **App features:** Select the MyCap/Research Kit features that will be used in your study. Please familiarize yourself with the potential functionality by downloading the demo app (link), reading the information here (link), or scheduling a consult with the MAG (link to form).
- **Evaluation or analysis plan overview:** Briefly describe your plan to evaluate your mobile app and data analysis
- **Timeline & Future plans:** Provide details on your proposed timeline including IRB application, app development, data collection, and analysis. Also, describe any plans for future funding, publication, and dissemination of findings that you plan as a result of this project.

V. Selection Process

Applications will be judged on the novelty, uniqueness and impact of the opportunity presented by the application. Applications will be first reviewed by experts in mobile technology and REDCap for technical feasibility. All proposals that are considered feasible will be reviewed by a committee of researchers, who will recommend awardees based on the specified criteria.

VI. Terms of the award

A. Project Execution

- Duke CTSI staff will work closely with the funded teams throughout the funded period to monitor progress and, when necessary, provide assistance. A short six-month interim and 12-month final progress report will be required. Duke CTSI expects Duke Investigators to report over the lifetime of the work the outcomes achieved due to the pilot award (e.g., subsequent external funding, publications, and presentations).
- A Duke CTSI staff member will interact regularly with the awardees to help manage timelines, report progress relative to the planned milestones, and serve as a resource to identify and fulfill unmet project needs via the Duke CTSI and other key resources.

B. Post-Award Reporting

Duke CTSI tracks significant events (“translational units”) that are required to translate a scientific discovery from laboratory, clinical or population studies into clinical or population-based applications to improve health by reducing disease incidence, morbidity, and mortality. When requested, all awardees will be expected to provide updates of publications and other translational units that originated from the award. Examples include:

- Abstracts/presentations, manuscripts, published guidelines
- Follow-on funding (e.g., grants, SBIR/STTR, angel, and venture capital investment)
- Milestones achieved in animal models, manufacturing and toxicity campaigns
- Regulatory meetings and filings (e.g., 510K, IDE, IND, BLA, NDA)
- Initiation of appropriate clinical studies
- Improved diagnosis or treatment of disease

- Implementation in clinical practice or community
- Translation of models to other geographical areas
- Translation of models to other therapeutic areas
- Clinical outcomes in practice and communities
- Clinical guideline or guidelines updated
- Agreements with partners and strategic collaborators to translate more broadly
- Commercialization (e.g. new intellectual property, patent applications, license, commercial partnerships, start-up company)
- Direct-to-consumer interactions (e.g. apps)

CONTACT INFORMATION: For additional information on this funding opportunity, please contact MobileApps@Duke.edu.