BUDGET JUSTIFICATION

A. SENIOR PERSONNEL
5% academic year and summer salary support (3 weeks in years 1 and 2) for PI Rundell is sought as she has a 10-month academic year appointment and has primary responsibility for the project. She will be planning and supervising the entire collections pack and move, providing data and project quality control and adherence to the proposed timetable. Much of this activity will occur over the summer when Rundell is not teaching and is unsupported. Rundell will also mentor the undergraduate Collections Intern and the graduate Collections Assistant as well as oversee related interpretive efforts such as exhibit signage promoting the collections move.

No additional support is sought for co-PI Wheeler. Wheeler will meet with Rundell each week to discuss move progress and troubleshoot any problems with workflow or equipment installation.

B. OTHER PERSONNEL

Graduate Collections Assistant. – Funding for one graduate student Collections Assistant – 50% FTE is requested for project years one and two ($18,000 x 2 years, as well as a second-year salary increase of 3%) to assist the Collections Manager with the inventory, assessment, reorganization, and installation of the bird and mammal collections. This position will provide an attractive organismal biology and collections education opportunity for a collections and biodiversity-oriented graduate student. The graduate Collections Assistant will be mentored by the PI (Rundell) and will take the lead on researching the appropriate modern phylogenetic arrangement of the collections, data quality control (with the help of the Collections Manager) and troubleshooting the digitization effort. The Collections Assistant will also contribute to communicating the work of the move and the RWLC to the scientific community through e.g. a poster presentation at the annual Society of Systematic Biologists/American Society of Naturalists/Society for the Study of Evolution joint meeting in Portland, Oregon, and to school audiences through the RWLC website. Academic year tuition is also included in the budget under “Other” for the graduate student collections assistant.

Undergraduate Collections Intern. – Funding for one undergraduate Collections Intern is requested for the summers of project years one and two. This position will provide transformative training in collections work and biodiversity, particularly for our conservation, wildlife and environmental biology majors in the Department of Environmental and Forest Biology, many of whom will be seeking leadership roles in state and federal conservation and wildlife agencies, either immediately following graduation, or after graduate study. With the help of the Collections Manager and graduate Collections Assistant, the Collections Intern will be involved in assessing the conservation status of specimens, employing Integrative Pest Management approaches to specimen drawers using the -20°C walk-in freezer, digitizing specimen data and moving and organizing specimens. The intern will work closely with the Graduate Collections Assistant and PI in developing an independent research project using specimens from the RWLC and their associated data, and will help promote the collections through the RWLC website and social media. The intern’s research project will be continued during the regular academic year as an independent study (EFB498 course “Research Problems in Environmental and Forest Biology,” with mentoring by the Graduate Collections Assistant.
and PI) and presented at the annual ESF Spotlight on Student Research Symposium in April. The Intern will work 12 weeks for 40 h/w at $10.10/hr. during the two summers (2015 and 2016).

**Academic Year Collections Interns.** – Four additional volunteer interns will be recruited for project years 1 and 2 during the regular academic year. Each intern will receive SUNY-ESF credits, initially under EFB298 “Research Apprenticeship in Environmental Biology” under PI Rundell. Students will be trained by Collections Manager Giegerich and the graduate Collections Assistant and ultimately supervised by PI Rundell. Collections Interns will be involved in collections assessment, pest management, specimen moving, and digitization. All digitization tasks undertaken will be carefully overseen by the graduate Collections Assistant and the Collections Manager to ensure high data quality. Interns’ performance will be assessed at the end of each semester, and students with good track records will be asked to participate in the program in subsequent semesters. Collections Interns who excel in their role after the first semester will enroll in the more advanced undergraduate research course, EFB498 “Research Problems in Environmental and Forest Biology,” and work with the graduate Collections Assistant and PI Rundell to develop independent research involving specimens in the RWLC, which will be presented at the annual ESF Spotlight on Student Research Symposium. These presentations will help promote the use of Roosevelt Wild Life Collections in research among faculty researchers, undergraduates and graduate students.

**C. FRINGE BENEFITS**
Fringe benefits are calculated current and proposed rates per DHHS approved agreement and RF proposed rates beginning July 1 each year. Current rates employed for this proposal are: PI-academic year- 53.58%, 59.75%, 59.59%; PI-Summer – 15%; Graduate Student – 16%; 18%; 20%; and 5% for the Undergraduates.

**D. PERMANENT EQUIPMENT**
The $2M state award will fund the finishing of the Gateway Shell space from its current raw state (gravel floor). This finishing includes a concrete floor, walls, plumbing, ventilation, attached lighting, glazing, doors, attached lab counters, and a -20° C walk-in freezer. Plans for this space are well-advanced (see SD.7, Floorplan and Perspective Views). The $26,000 needed to embed the mobile storage system rails (Item I. in SD.9) will be covered within this state award and has been integrated into our architect’s plans. The rails will be embedded during the concrete pour for our new floor to allow for future expansion. The construction of the rails is such that pedestrians and wheelchairs face no obstruction in freely moving over them (see SD.4).

Major equipment funding from NSF CSBR is sought for mobile carriages (for compactorized storage), new cabinets and drawers. Competing quotes from two companies (O’Brien Systems, Inc. and Henderson-Johnson, attached) have been obtained. The lowest quoted price for the Gateway Shell space was $704,000 (including $26,000 for rails; Henderson Johnson Co. Inc., SD.9). The quoted price for the Gateway Shell by O’Brien Systems Inc. (SD.6, Items 4 and 5) is $813,273 plus $31,102 for rails, i.e. $844,375. Our most immediate space need is for the birds and mammals (enough space for the current specimens to be properly rehoused in adequate space plus accommodations for about 3 years of expansion while additional funding is sought. Based on the newly designed floorplan for the Roosevelt Wild Life Collections Research and Education
Center, the amount requested in this project would cover the current bird and mammal collections, or ½ of the total quoted cabinetry at a total of $339,000.

E. TRAVEL
$3000 is requested for meeting travel for PI Rundell and a graduate student, who will co-author a poster and give a talk at the Society of Systematic Biologists/American Society of Naturalists/Society for the Study of Evolution joint meeting in Portland, Oregon in the summer of 2017. We will promote RWLC, the new facility, and our outreach activities to a diverse organismal and systematic biology audience, including ornithologists and mammalologists.

F. PARTICIPANT SUPPORT COSTS
None requested.

G. OTHER DIRECT COSTS
1. Materials and Supplies:
$2400 is requested for an I-Class Mark II Industrial Barcode Printer, printer cable, thermal transfer ribbon, 1D Code 128 barcode labels and a Symbol LS2208 Barcode Scanner. These will be used in Phase II digitization of bird and mammal specimens. Best practices and products used for barcoding was researched through iDigBio:

I. INDIRECT COSTS
SUNY-ESF’s Indirect Costs of 57% MTDC applies to federally-funded “on-campus” projects. The modified indirect cost base= $80,903 (minus equipment and tuition).