CALL FOR PROPOSALS
YARBROUGH UNDERGRADUATE RESEARCH GRANTS
2014-2015 Academic Year

1. Grants are for research to be carried out during the summer of 2014 and/or the 2014-2015 academic year. Maximum amount available is determined by NCAS Board. Projects that are hypothesis driven, original, and include cost sharing from the host institution will be most competitive.

2. Applicants must be freshmen, sophomores, or juniors in good standing at any North Carolina college or university, plan to be enrolled next year, and are current members of the Collegiate Academy.

3. The research advisor must be a current NCAS member in good standing and be responsible for administrating the funds. No faculty advisor can sponsor more than two applicants in any one year. Membership forms can be obtained on the Academy web pages (CANCAS: www.cancas.org and NCAS: www.ncacadsci.org). If the student or faculty advisor does not meet the criteria described above, the proposal will not be considered for funding.

4. Applicants must include the following:
   a. From the student: One copy of
      (1) The proposal cover sheet.
      (2) A narrative description of the research. This should include an introduction with clear statement of purpose and hypothesis(es) to be tested, methods and materials, and listing of pertinent references. It should be no longer than two pages.
      (3) A one-page budget summary.
         • Itemize as specifically as possible; no miscellaneous line item, please!
         • Indicate quantity and source of materials. Appropriate expenses include supplies. Inappropriate expenses include shipping charges, major equipment, software and other items that should be part of the institutional cost-sharing. Supplies and equipment normally available in science departments, books, and routine travel expenses should not be included (see enclosed example).
         • The budget should be comprehensive to include the full project; however, since typical grants will be in the $100-$500 range, projects requiring more funding than this should include a short statement that indicates source(s) from which additional funding will be sought.
funding will be sought (e.g. institution cost sharing, another grant, etc.)

b. From the faculty sponsor: **One copy** of a supporting letter.

c. From **two** other professors: **One copy** each of a general letter of recommendation.

5. Any research requiring special permits or approvals (e.g. human or animal use, euthanasia, banding, etc.) should clearly state that those permits will be or are in hand. If possible, include documentation. **Individuals and the institution are responsible for obtaining all appropriate permits and approvals.**

6. Recipients **must** present a paper on their research at the 2015 spring meeting and submit a brief financial report to the chair of the Research Grants Committee upon completion of the research project. **In the final report, please include any presentations made. All presentations are required to recognize NCAS as a source of funding.** A financial report must be submitted to the Yarbrough Grant Chair. Yarbrough Award winners are encouraged to submit a manuscript on the research to the *Journal of the North Carolina Academy of Science* for publication. Failure to submit a financial report or to attend and present their research at the meeting will result in a one year suspension of the faculty advisor from sponsoring a student for a Yarbourgh grant.

7. All application materials should be sent to:

   Yuko Miyamoto, PhD  
   Department of Biology  
   Elon University  
   100 University Dr.  CB#2625  
   Elon, NC 27244  

   Applications may be submitted via email as a zip file containing all application materials to:  
   ymiyamoto@elon.edu

8. Deadline for receipt of all application materials is **April 15, 2014**. Awards will be announced by **May 11, 2014**. Recipients must indicate their acceptance of the grant by **May 25, 2014** in order to receive funds. Funds will be distributed in June 2014 for summer projects and September 2014 for academic-year projects.
PROPOSAL COVER SHEET

Name of Student: ________________________________________________________________

Mailing Address: ________________________________________________________________

College or University: ____________________________________________________________

Student email address: _____________________________________________________________

General Area of Research (e.g., Microbiology): __________________________________________

Title of Research Proposal: _________________________________________________________

Total Funds Requested: __________________________ 

Projected start date: __________________________

I certify that I plan to be enrolled at the institution named above during the 2012-2013 academic year. I understand that to be eligible for a grant I must (a) be a member of the Collegiate Academy (either individual or group member in good standing) (b) present a paper on my research at the 2013 spring meeting, and (c) submit a brief financial report to the chairman of the Research Grants Committee upon completion of the research. If awarded, proposal may be used as an example on the website. I also understand that if I am a Derieux Award winner, I am encouraged to submit a written paper on my research for publication in the Journal of the North Carolina Academy of Science.

________________________________________
Student’s Signature

Name of Faculty Research Advisor ____________________________________________________

Mailing Address: ________________________________________________________________

Telephone Number: __________________________ E-mail: __________________________

Academic Discipline: ______________________________________________________________

I certify that I am a NCAS member in good standing, the above student is an undergraduate at the college or university named, and that I agreed to supervise his/her research.

________________________________________
Research Advisor’s Signature
**EXAMPLE OF A PROPOSED BUDGET USING PROPER FORM**

**TITLE OF RESEARCH PROJECT: XXXXX**

**PROPOSED BUDGET**

<table>
<thead>
<tr>
<th>ITEM</th>
<th>QUANTITY</th>
<th>SOURCE</th>
<th>UNIT PRICE ($)</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAGENTA GA 7 VESSELS</td>
<td>25</td>
<td>SIGMA, V-8380</td>
<td>46.90</td>
</tr>
<tr>
<td>MAGENTA GA 7 VESSELS</td>
<td>25</td>
<td>SIGMA, C-0542</td>
<td>17.25</td>
</tr>
<tr>
<td>MEMBRANE RAFT SQUARE</td>
<td>5</td>
<td>SIGMA, M-3029</td>
<td>15.00</td>
</tr>
<tr>
<td>SEPHADEX G-10</td>
<td>50 g</td>
<td>SIGMA, G-10-120</td>
<td>56.00</td>
</tr>
<tr>
<td>SEPHADEX G-15</td>
<td>50 g</td>
<td>SIGMA, G-15-120</td>
<td>82.50</td>
</tr>
<tr>
<td>CORNMEAL AGAR</td>
<td>500 g</td>
<td>BAXTER, 11132BT</td>
<td>76.60</td>
</tr>
<tr>
<td>NUTRIENT AGAR</td>
<td>500 g</td>
<td>BAXTER, 11472BT</td>
<td>63.45</td>
</tr>
<tr>
<td>POLYPROPYLENE SNAP CAPS, 12 X 75</td>
<td>500</td>
<td>BAXTER, T1343-12</td>
<td>82.57</td>
</tr>
<tr>
<td>FERN AND MOSS LIQUID</td>
<td>4 qts</td>
<td>CAROLINA BIOLOGICAL, 15-6786</td>
<td>53.92</td>
</tr>
<tr>
<td>SPHAGNUM</td>
<td>5 cases of 12</td>
<td>CAROLINA BIOLOGICAL, 15-6740</td>
<td>30.75</td>
</tr>
<tr>
<td>TANNIC ACID</td>
<td>250 g</td>
<td>SIGMA T-0215</td>
<td>12.40</td>
</tr>
<tr>
<td>ALBUMIN BOVINE FRACTION 5 POWDER</td>
<td>10 g</td>
<td>SIGMA A-9647</td>
<td>23.80</td>
</tr>
</tbody>
</table>

**TOTAL** $466.54

**THE ESTIMATED TOTAL COST OF THE PROJECT WILL BE $466.54**

**STATEMENT OF ADDITIONAL FUNDING***

Additional funding is available from departmental funds and will also be sought through Sigma Xi.

*Note: A Statement of Additional Funding is required for projects that will require more than the amount typically available from Yarbrough funding. See additional information above.