Executive Summary

The University of Kentucky Center for Poverty Research (UKCPR), with funding from the Food and Nutrition Service (FNS) of the U.S. Department of Agriculture, will competitively award research contracts to qualified individuals and institutions to provide rigorous research that expands our understanding of, and the attendant policy implications for, food-related hardships among older Americans. Total anticipated funding under this mechanism is $1.2 million for four large contracts at $250,000 each and four small contracts at $50,000 each.

I. Background and Purpose

A. Statement of the Problem and Relevant Research

Food insecurity, the lack of enough food for an active, healthy life for all household members at all times, is a leading public health challenge in the United States affecting persons of all ages, including older Americans. Ziliak and Gundersen (2019) report that in 2017 7.7% persons of age 60 and older were food insecure, and 3.1% were very low food secure (i.e., at times the food intake of one or more household members was reduced and their eating patterns were disrupted because the household lacked money and other resources for obtaining food), which translates to 5.5 million and 2.2 million seniors, respectively. This is an increase of 45% since 2001 in the food insecurity rate, and a more than doubling of the very low food security rate.

These increases are especially concerning in light of two factors. First, the number of food insecure seniors has increased at a faster rate than the general population. For the general population, the number of food insecure individuals increased by
less than half the increase for seniors (Coleman-Jensen et al. 2019; Ziliak and Gundersen, 2019). Second, the number of seniors is projected to increase dramatically in the coming years. By 2030, about 1-in-5 Americans will be over the age of 65. Even if the proportion of food-insecure seniors stays the same or even falls slightly, the number of food insecure seniors will continue to grow in absolute terms.

Making this trend even more concerning is that food insecure persons aged 60 and older are significantly more likely than their food secure counterparts to have reduced nutrient intakes and worse health outcomes (Ziliak and Gundersen, 2017). For example, controlling for other confounding factors, food insecure seniors have reduced intakes ranging from 4-7.5% of energy, protein, iron, magnesium, and Vitamins B6 and C compared to food secure seniors. In terms of health outcomes, the odds that food insecure seniors are depressed is 60% higher, face serious heart conditions is 40 to 50% higher, suffer asthma complications is 52% higher, and have activities of daily living (ADL) limitations is 22% higher. This suggests that food insecurity is disruptive to good health and well-being for older persons. Other work finding food insecure seniors are more likely to be in poor-health includes, since 2005, e.g., Afulani et al., 2015; Bengle et al., 2010; Bhargava and Lee, 2016, 2017; Champagne et al, 2007; Johnson et al., 2011; Oemichen and Smith, 2016; Sattler and Lee, 2013; Sattler et al., 2014; Smit et al., 2013; Temple, 2006. In addition, given the demonstrated higher health care costs associated with food insecurity (Berkowitz et al., 2018; Tarasuk et al., 2015), the financial burdens on both the health care system and individual seniors will likely increase in the coming years with a growing senior population.

To counteract the forces that drive food insecurity among seniors, there have been a wide array of programs developed by the USDA (e.g., Supplemental Nutrition Assistance Program (SNAP), Senior Farmers’ Market Nutrition Program), Department of Health and Human Services (HHS) (e.g., Nutrition Services Incentive Program), and charitable organizations (e.g., Meals On Wheels, Feeding America) designed to reduce food insecurity. SNAP is the only large-scale nutrition program that is available to eligible seniors (i.e., those age 60 and older, and meeting the net income and asset tests). An extensive literature has demonstrated that, in the absence of SNAP, food insecurity would be far higher than it is. (See Gundersen et al., 2017 and references therein.) To encourage participation of elderly individuals in SNAP, there are several special rules that make it easier for seniors to qualify for the program, such as the lack of a gross income test and a higher asset limit.

B. **Program Objectives**

While prior research has established some of the key risk factors and negative health consequences associated with food insecurity and the role of SNAP and other assistance programs in alleviating food insecurity, there remain multiple pressing unanswered research questions on the causes and consequences of food hardships. This is particularly true for research on food insecurity among seniors.
which has received substantially less attention than research on other food insecure populations (National Academies of Sciences, Engineering, and Medicine, 2016).

To address this gap in research, we issued an RFP in 2018 to support research on food hardships among older Americans under the Priority Research Areas below. The list of awardees and a brief synopsis of their proposed research can be found at http://ukcpr.org/research/food-assistance-food-insecurity/seniors. In this second round RFP we aim to build on the first-round studies within these same priority research areas. The list of questions and topics below are not exhaustive and researchers are encouraged to consider these and other questions in their proposals as long as they fall within one of the three general research priorities. We welcome both quantitative and qualitative research using primary and/or secondary data. However, we wish to emphasize that successful applications must meet the following criteria:

1. The proposal must address the issue of food insecurity among seniors. For purposes of this RFP, seniors are defined as those 60 and older. While research can consider other household members (e.g., spouses under the age of 60; grandchildren present in the household) the central questions being posed must address food insecurity among seniors.

2. There is an extensive literature examining the causes and consequences of food insecurity and the role of food assistance programs in alleviating food insecurity. While most of this literature has dealt with food insecurity more broadly (rather than food insecurity among seniors), there are numerous insights from this body of work germane to the questions being posed in this RFP. We are looking for proposals that build on the existing research and offer new and creative approaches to the questions around food insecurity among seniors. These should also be distinct from the first round of awards.

3. The research must address policy relevant issues. A central goal of the USDA is to reduce food insecurity among seniors. The research funded by this announcement should inform the work of policymakers and program administrators in their efforts to achieve this goal.

4. We strongly encourage researchers to examine causal effects, especially for proposals examining the effects of food assistance and other safety net programs on food insecurity, as well as the impact of food insecurity on health outcomes.
5. Awards at the $250,000 level should be more ambitious in scope. Examples include a significant primary data collection component, multiple secondary datasets and/or linkages to administrative data records, and multiple studies for peer-review publications.

C. **Priority Research Areas**

We seek innovative research that focuses on one or more of the following three general topics. The associated research questions are illustrative and not exhaustive.

1. **Describing households with food insecure seniors**

What are the social, economic, and health characteristics of food insecure households with older adults that go beyond simple demographic descriptors - such as functional status and ability to live independently, access to transportation, mental function, spousal health status, social network and family connections, cultural and linguistic integration, geographic context, and internet and smart device use?

How are low-income seniors who are food insecure different from low-income seniors who are food secure?

What combination(s) of individual/household characteristics and circumstances ameliorate or exacerbate the likelihood of senior food insecurity?

How does food insecurity fluctuate with eligibility for and receipt of other old age programs such as SSI and Medicare?

How is food security status in old age related to food security status at other points in the life course? To what extent can risk factors for elderly food insecurity be identified and detected prior to old age? Similarly, what factors lead food insecurity to decrease as old age advances?

How does household spending on non-food necessities change in response to food-related hardship?

2. **Understanding program participation**

What are the demographic, social, and economic characteristics of households with older adults who participate in nutrition assistance programs? How are they different from those who do not participate?
What role do cultural, economic, and eligibility/application factors play in encouraging or restricting senior program participation?

How does household access to the internet and use of smart technology affect likelihood of SNAP participation and recertification among seniors?

What changes or alternatives to eligibility and benefit level determinations are likely to encourage greater SNAP participation by eligible seniors?

To what extent can policies like healthy eating incentives encourage greater SNAP participation among eligible seniors?

To what extent do seniors participate in Federal nutrition programs alone or in combination with non-Federal nutrition programs and free food acquisitions such as food pantries?

Why have some nutrition assistance programs like the Food Distribution Program on Indian Reservations (FDPIR) seen an increase in elderly participation? What lessons can be drawn that are applicable to other nutrition assistance programs – especially SNAP?

3. Evaluating program impact

To what extent do nutrition assistance programs, alone or in combination, reduce food insecurity, promote health and nutrition, and delay adverse health outcomes?

To what extent do nutrition assistance programs bridge the nutrition intake gap observed between food secure and insecure seniors?

How are other behaviors and health conditions associated primarily with old age impacted by SNAP use (e.g., frailty, duration of independent living)?

How do household spending patterns on non-food purchases change in response to SNAP use?

How do program impacts vary with different benefit delivery mechanisms? For example, how do SNAP benefits delivered via EBT differ from pre-packaged commodity boxes of non-perishable foods that are picked up at local distribution centers or delivered directly to participants?
What subgroups of seniors benefit most by nutrition assistance program participation and how? For example, how do impacts compare by rural versus urban location?

II. Award Information

A. Award Summary
Fixed price contracts will be established between the University of Kentucky Research Foundation (UKRF) and the awardee institution or organization. Underwriting for awards made under this announcement is provided by the Food and Nutrition Service, U.S. Department of Agriculture, Contract Number 12319819C0006.

We anticipate funding four large research subcontracts at $250,000 each and four small subcontracts at $50,000 each. This ceiling is inclusive of any facilities and administration (F&A) indirect costs. Federally negotiated F&A rates are allowed. In the absence of a Federally negotiated rate, applicants may use a maximum 10% F&A rate. For the purposes of this award the budget period will commence on Feb. 25, 2020, and conclude on Dec. 31, 2022. These research subcontracts do not allow for reimbursement of pre-award costs.

B. Eligibility
Proposed principal investigator(s) (PI) must hold a Ph.D. or equivalent academic degree, and be employed at a college, university, or non-profit research organization located in the United States or its territories. Co-investigators may be employed at institutions outside the U.S. or its territories. Researchers who are serving as PIs on the first-round UKCPR research awards on food hardships among older persons are not eligible to serve as lead investigators on these projects, but they may serve as co-investigators or consultants. Researchers at the University of Kentucky are not eligible to serve as PIs. Members of minority and underrepresented groups are strongly encouraged to apply.

C. Disqualification Factors
Applications that exceed the budget ceiling amount, that do not address food-related hardships among older persons in the U.S., or that otherwise disregard RFP application guidelines will be considered non-responsive and not eligible for funding under this mechanism.

III. Application Submission Information

A. Letter of Intent to Submit a Proposal
If you plan to submit a proposal, we request a letter of intent to be submitted via email by Dec. 10, 2019. The letter should only contain the names and contact information of any PI and co-investigators, the title and topical domain of the planned project, whether the proposal is for a large or small contract, and the name of the college/university/organization that will serve as the point of contact.
for award administration. This letter is not mandatory and will be used for planning purposes for proposal reviews. Please email the letter of intent as a Word or PDF document to Mr. Jeff Spradling at ukcpr@uky.edu

B. Submission of Full Proposals
The completed application must be received by 5 p.m. EST on Jan. 14, 2020. Email applications to Mr. Jeff Spradling at ukcpr@uky.edu. To be considered responsive to the RFP, applicants must submit a PDF of the complete application, inclusive of cover pages and appendices, along with a Word version of the title page, project summary, and main body of the proposal, including bibliography. Email acknowledgement of receipt of all application materials will be provided on or about the close of business on Jan. 17, 2020.

C. Content and Format of Applications
Applicants for a Large contracts must limit their project narrative to no more than 20 pages, and applicants for Small contracts must limit their project narrative to no more than 10 pages. For the purposes of this announcement the project narrative begins with the Background and Motivation section and ends with the Budget Justification and Timeline, and excludes appendices and front matter such as cover page, table of contents, and project summary. The narrative must be double spaced, 1” margins on all sides, and standard 12 pt. font. Front matter and appendices may be single spaced, but must adhere to requirements on font size and margins.

UKCPR seeks applications from institutions that can demonstrate the capacity to undertake substantive research projects, both administratively and technically. Applicants should specify in the project narrative how they will be able to fulfill the project goals described above. In addition, applicants must specify administrative arrangements that will minimize start-up costs. If funding under this mechanism is to be used in conjunction with funds from other sources, the applicant must specify the sources and duration of those funds and how the resources in this competition will be leveraged to accomplish project goals.

Each application must contain the following components in order

1. Cover Page
   Each application must contain a cover page with the title of the proposed research; applicant name(s) and institutional affiliation (if multiple investigators, a PI must be identified); program name (Large contracts with $250,000 maximum; Small contracts with maximum of $50,000); and contact information including full mailing address, email address, and phone numbers. The name and contact information of the institutional research representative should also be identified.
2. **Table of Contents**
The table of contents must identify the page location of each major section and subsection, beginning with the Background and Motivation Section.

3. **Project Summary**
A key component of the successful application will be a non-technical two-page summary containing the title, PI(s), objectives, methods, data, expected policy implications, budget request, and scheduled timeline of meeting major milestones of the proposed project. The project summary must be in paragraph format, and not contain bulleted lists, figures, or diagrams.

4. **Background and Motivation**
The application shall present an analysis of key trends and past research on the focal area of interest in the proposed project. The background and motivation should demonstrate the applicant’s command over the policy and research significance of trends in food-related hardships among older persons as well as the past research on the issue. The section should also demonstrate how the proposed research expands upon the corpus of knowledge on senior food insecurity, including, if applicable, the UKCPR projects funded in the first round of awards.

5. **Research Design**
The application shall present a research design for the performance period. For the purposes of the research design, the performance period has two subperiods: the report period and the journal article review period. The report period commences on the date of award and concludes on the due date of final report, which is 24 months for Large Grants (February 25, 2020 – February 22, 2022) and 18 months for Small Grants (February 25, 2020 – August 24, 2021). The journal review period is the period from submission of final technical report and draft journal article to the submission of the final revised journal article for the peer-reviewed edited volume (February 22, 2022 – December 31, 2022 for Large Grants and August 24, 2021 – December 31, 2022 for Small Grants). This prospectus should include identification of key research questions, conceptual and theoretical foundations of the focal hypotheses to be tested, data, and statistical methods of analysis. If the proposed project entails primary data collection (e.g. surveys, ethnographic/qualitative, field experiments), the applicant shall make clear how and when the data will be collected, processed, and analyzed, and how such data is fundamental to answering the questions being posed.

All proposals must contain a timely plan for obtaining Institutional Review Board (IRB) approval or exemption for human subjects research. Typically, secondary data analysis is eligible for exemption approval.
6. **Expected Results and Impact**  
The applicant shall describe the type of information expected to result from the effort and link it to potential policy and scientific relevance in advancing our understanding of the causes, consequences, and correlates of food-related hardships among older persons in the United States.

7. **Staffing Plan**  
The application shall identify with a biographical narrative all key personnel involved in the project, including the PI, co-investigators, and senior staff. This includes senior staff involved in primary data collection (if applicable). If the application contains a sub-award to another institution, a letter of support from that institution’s research administration must be included in the appendices.

8. **Budget Narrative and Timeline**  
The applicant’s budget narrative must link the research to the funding requested, including the appropriateness of the level and distribution of funds to the successful execution of the project. This includes identifying the distribution of effort of all key personnel to the project, the cost (if any) of data collection efforts, and administration. Facilities and administrative (indirect) cost recovery is allowed and should be included as part of the proposed budget. The indirect cost rate for submissions is the applicant institution’s Federally negotiated F&A rates. In the absence of a Federally negotiated rate, applicants may use a maximum 10% F&A rate. Any cost normally treated as an indirect cost that is budgeted as a direct cost will require budget narrative justification. The availability, or potential availability, of additional funds to be used in conjunction with those requested in this announcement should be detailed, e.g. funding source, duration, cost-shared effort, and other costs covered. Current external funding for other projects and effort commitment of key personnel for other projects should be described.

Applicants must budget for one trip to Lexington, Kentucky (planned for May 2021) and one to the Washington, D.C. metro area (planned for Aug. 2022).

The budget narrative shall also contain a detailed timeline of project goals and meeting milestone deliverables. Applicants should use the timeline template provided or a similar format. The full budget period is Feb. 25, 2020 – Dec. 31, 2022 for both Large and Small contracts.

9. **Appendices**  
   (i) Bibliography  
   (ii) Curriculum Vitae  
   Curriculum Vitae of the PI and co-investigators shall be included in the appendices. The CV should include highest educational
degree and institution, current and past employment and professional appointments, concurrent and prior funded extramural research, and a listing of reports and publications in the past 5 years that are pertinent to the research proposed herein.

(iii) Letters of Commitment and/or Support (if applicable)

IV. Application Review Information

Applications will be initially screened for relevance to the subject areas described above, academic qualifications of the PI, the ability of the applicant institution to administer a research contract, inclusion of requested proposal sections, and adherence to RFP guidelines, such as the budget ceiling and page limits. Proposals not passing the initial screen will be notified to that effect in writing. Those proposals passing the initial screen will undergo a full review by a Technical Review Panel consisting of nationally recognized experts. Recommendations for funding will be forwarded to FNS for final review. Review Panel members are not eligible for funding under this mechanism, and extreme care will be taken to avoid potential conflicts of interest.

Proposals will be evaluated based upon a 100-point scale across several factors, including:

1. **Research Merit** (35 points): Among other criteria, proposals will be scored based on the importance and relevance of the proposed project to research foci identified in this announcement, the clarity of the questions posed, how it expands on the existing literature, and, most critically, how it assists FNS in meeting its goals of increasing its understanding of food-related hardships among older persons in the United States.

2. **Methodology** (20 points): Proposals will be evaluated based upon the appropriateness of the proposed research design for the questions being posed, the feasibility of the methodology given the proposed choice of data sets (see below for the criterion for data collection), and the applicant’s grasp of the significance of past research and the extent to which the proposed methods expand upon prior studies.

3. **Data** (20 points): For projects involving primary data collection, points will be awarded based upon appropriateness of the data to the research foci, the quality of the design of the qualitative interviews and/or quantitative survey (including the prospective internal and external validity), and the feasibility of the proposed researchers to conduct the survey in a timely and cost-effective manner. In awarding points, the prior track record of the investigators and their organization in primary data collection efforts will be considered. For secondary data analyses, applications will be scored based upon appropriateness of the data to the research design, and the quality and external validity of the data.

4. **Personnel** (15 points): Reviewers will evaluate the proposed key personnel for the necessary skills, experience, and track record to produce an excellent product.
Included in this will be the time commitment of key personnel to the project in relation to the proposed budget and other funded projects.

5. **Budget and Workplan (10 points):** Among other criteria, proposals will be judged based on the feasibility of the timeline proposed, the reasonableness of the budget, and the quality of infrastructure at the PI’s institution to successfully execute the proposed project.

In addition to the points awarded above, UKCPR and FNS will weigh proposals based on overlap with ongoing projects, the extent to which the proposal integrates with the other highly scored proposals to form a more cohesive portrait, and potential future research and policy benefits.

V. **Award Administration Information**

A. **Award Notices**
Applicants will be notified of contract award on or about February 25, 2020.

B. **Contact Information**
Administrative questions relating to this announcement should be directed to Mr. Jeff Spradling, UKCPR Assistant Director, and technical questions directed to Dr. James P. Ziliak, UKCPR Director. All inquiries should be submitted via email at ukcpr@uky.edu and reference **RFP on Food Hardships** in the subject line.

C. **Reporting requirements**
   1. **Large Research Contracts (funded at $250,000)**
      
      (i) **Progress Reports:** The awardee shall submit biannual progress reports due on Aug. 25, 2020, Feb. 23, 2021, and Aug. 24, 2021. The progress report should summarize progress toward completion, especially highlighting the achievement of key milestones set out in the workplan. Changes in personnel and in budget allocation across categories should also be described. The awardee should notify and seek approval from UKCPR of any changes to key personnel 30 days prior to such requested change. In addition, reporting challenges and how they were overcome should be included in progress reports. Submit progress reports as a Word document to ukcpr@uky.edu.

      (ii) **Events:** The PI, or their designee per UKCPR approval, shall attend the following functions:

      (1) A Progress Report Conference in Lexington, Ky., to be held on or about the week of May 10, 2021. At this conference recipients will give a formal presentation of preliminary results.
      (2) A Research Symposia on Food-Related Hardships among Older Americans in Washington, DC metro area, to be held on or about
the week of Aug. 2, 2022. At the symposium, each of the funding recipients will present final research findings.

(iii) **Deliverables:** The awardee shall submit the following deliverables:

1. Progress reports as outlined in subsection V.C.1.(i)
2. A draft final report on or before April 27, 2021 that forms the basis of the Progress Reporting Conference presentation
3. A final report on or before February 22, 2022. The report shall include the following components: Title Page, Acknowledgement, Abstract, Executive Summary (2-3 pages single spaced), Introduction, Research Methods, Data, Results, Discussion, and Conclusion.
4. An article for an edited volume to be published in a peer-reviewed academic journal or press. The article shall be submitted on or before Feb. 22, 2022, and a revised version (if applicable) by May 17, 2022. Length of article will be determined based on publication outlet.
5. Along with the final report and an article for the edited volume, awardees are highly encouraged to publish additional technical papers and nontechnical policy briefs based on research funded by this award.

2. **Small Contracts (funded at $50,000)**

(i) **Progress Reports:** The awardee shall submit biannual progress reports due on Aug. 25, 2020, and Feb. 23, 2021. The progress report should summarize progress toward completion, especially highlighting the achievement of key milestones set out in the Workplan. Changes in personnel and in budget allocation across categories should also be described. The awardee should notify and seek approval from UKCPR of any changes to key personnel 30 days prior to such requested change. In addition, reporting challenges and how they were overcome should be included in progress reports. Submit progress reports as a Word document to ukcpr@uky.edu.

(ii) **Events:** The awardee or their approved designee shall attend the following functions:

1. A Progress Report Conference in Lexington, Ky. to be held on or about the week of May 10, 2021. At this conference recipients will give a formal presentation of preliminary results.
2. A Research Symposia on Food-Related Hardships among Older Americans in Washington, DC metro area to be held on or about the week of Aug. 2, 2022. At the symposium, each of the funding recipients will present their final research findings.
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1. Progress reports as outlined in subsection V.C.1.(i)
2. A draft final report on or before April 27, 2021 that forms the basis of the Progress Reporting Conference presentation
3. A final report on or before Aug. 24, 2021. The report shall include the following components: Title Page, Acknowledgement, Abstract, Executive Summary (2-3 pages single spaced), Introduction, Research Methods, Data, Results, Discussion, and Conclusion.
4. An article for an edited volume to be published in a peer-reviewed academic journal or press. The article shall be submitted on or before Aug. 24, 2021, and a revised version (if applicable) by Nov. 16, 2021. Length of article will be determined based on publication outlet.
5. Along with the final report and an article for the edited volume, awardees are highly encouraged to publish additional technical papers and nontechnical policy briefs based on research funded by this award, subject to terms and conditions as per Section V.E.

**D. Invoicing**

Subcontracts are established as fixed-price with invoicing based on deliverables consistent with timeline as detailed in Section V.C of this RFP and finalized at subcontract execution. All invoices shall be submitted to APPOInvoices@uky.edu using the subcontractor's standard invoice, but at a minimum shall include milestone/deliverable, payment amount, subcontract number, purchase order number, and certification as to truth and accuracy of invoice. Invoices that do not reference the subcontract number may be returned to the subcontractor. UKCPR reserves the right to reject an invoice.

**E. Terms and Conditions**

1. **Award Terms**
   UKCPR reserves the right to negotiate with the project investigators and/or their institutional representatives regarding the scope of work proposed, including funding level and project duration.

2. **Publication**
   (i) The report and any attendant work products produced as a result of this award shall contain the following:
   “This project was supported with a research contract from the University of Kentucky Center for Poverty Research through funding by the U.S. Department of Agriculture, Food and Nutrition Service, Contract Number 12319819C0006. The findings and conclusions in this [publication/presentation/blog/report] are those of the author(s) and should not be construed to represent UKCPR and any official USDA or U.S. Government determination or policy.”
(ii) UKCPR holds the right of first refusal to publish results from research emanating from this award. This clause ensures UKCPR’s ability to fulfill contract requirements of a special journal issue/book upon project completion.

(iii) The Awardee agrees not to disclose any information concerning the work under this contract to any persons or individual prior to submission of such disclosure to UKCPR for review and comment. This includes press releases, reports, briefs, and data. Such submission shall occur at a minimum sixty (60) days prior to the anticipated date of any publication or disclosure unless another time period is mutually agreed to. UKCPR has the right to require the removal of any information deemed confidential, including but not limited to personal identifying information, HIPPA related data, or information provided to the Awardee by UKCPR and identified as Confidential or Controlled.

3. Rights to Data
The Awardee will retain custody of and have primary rights to the data developed under this award, subject to government rights to access consistent with current FNS regulations. Unless otherwise restricted by prior agreement, the Awardee shall provide access to research data from this project and establish public use files of research data developed under this award.

F. Disclaimer
Nothing in this announcement should be construed as to obligate the University of Kentucky Research Foundation, UKCPR, or FNS to make any awards whatsoever. Awards are contingent upon funding availability and research needs.

*The University of Kentucky is an equal opportunity institution.*
Applicant Checklist

Full Proposals should include:

1. **Cover Page**
   a. Title of proposed research
   b. PI name, organization, and contact information
   c. Program applying for funding (Large or Small Contract)
   d. Authorized representative and contact information

2. **Table of Contents**

3. **Project Summary (2 pages, single spaced)**

(Note: Sections 4-8 are to be double spaced; 10 pages max for small contracts, 20 pages max for large contracts)

4. **Background and Motivation**

5. **Research Design**

6. **Expected Results and Impact**

7. **Staffing Plan**

8. **Budget Justification and Timeline**

9. **Appendices (e.g. bibliography, CVs, letters of support)**


