# Collaborative Research Program Grant 2019

# Application Form

## Cover Page

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| Program Title |
|  |
| **Application Reference Number** *(You will receive this number once you register for the grant in EDAS)* |
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| Principal Investigator (PI) Details | |
| **Name** (First, middle, last) |  |
| **Position Title** |  |
| **Department** |  |
| **University** |  |
| **Telephone** |  |
| **Email** |  |
| **Nationality** |  |
| Host Institute Details | |
| **Name of Host Institute** |  |
| **Campus** (if applicable) |  |
| **Emirate** |  |
| **Department** |  |
| **Telephone** |  |
| **Webpage** |  |

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| Theme | | |
| Please mark **x** on one main R&D field and then one sub-field for the proposed research program: | | |
| Natural Sciences |  | Mathematics |
|  | Computer and information sciences |
|  | Physical sciences |
|  | Chemical sciences |
|  | Earth and related environmental sciences |
|  | Biological sciences |
|  | Other natural sciences |
| Engineering and  Technology |  | Civil engineering |
|  | Electrical engineering, electronic engineering, information engineering |
|  | Mechanical engineering |
|  | Chemical engineering |
|  | Materials engineering |
|  | Medical engineering |
|  | Environmental engineering |
|  | Environmental biotechnology |
|  | Industrial biotechnology |
|  | Nano-technology |
|  | Other engineering and technologies |
| Medical and Health  Sciences |  | Basic medicine |
|  | Clinical medicine |
|  | Health sciences |
|  | Medical biotechnology |
|  | Other medical sciences |
| Agricultural and  Veterinary Sciences |  | Agriculture, forestry, and fisheries |
|  | Animal and dairy science |
|  | Veterinary science |
|  | Agricultural biotechnology |
|  | Other agricultural sciences |
| Social Sciences |  | Psychology and cognitive sciences |
|  | Economics and business |
|  | Education |
|  | Sociology |
|  | Law |
|  | Political science |
|  | Social and economic geography |
|  | Media and communications |
|  | Other social sciences |
| Humanities and Arts |  | History and archaeology |
|  | Languages and literature |
|  | Philosophy, ethics and religion |
|  | Arts (arts, history of arts, performing arts, music) |
|  | Other humanities |

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| Relevance | | | |
| Please mark **x** at least one of the focus areas of UAE Science, Technology and Innovation (STI) Policy that is relevant to the theme of your proposed research program: | | | |
|  | Education Innovation and Technology |  | Architecture and Urban Design |
|  | Health Information Technology and  Bioinformatics |  | Arabic Digital Technology |
|  | Smart City Applications and Solutions |  | Financial Services Technology |
|  | Biotechnology and Genomics |  | Petroleum Geosciences |
|  | Water Management and Economics |  | Internet of Things and Big Data |
|  | Solar and Alternative Energy Technology  Systems |  | Additive Manufacturing (3D Printing) |
|  | Space Sciences |  | Advanced Building and Construction Materials |
|  | CubeSats and Nanosatellites |  | Food Security |
|  | Cybersecurity |  | Commercial Unmanned Aerial Vehicles |
|  | Semiconductor Process Development |  | Autonomous Vehicles |
|  | Robotics and Artificial Intelligence |  | Transportation Logistics, Analytics and Security |
|  | Public Health Non-Communicable Diseases and  Wellness |  | Aerospace Advanced Materials, Manufacturing,  Maintenance and Testing |
| In no more than six (6) sentences, explain briefly the relevance of the proposed research to the selected focus area: | | | |
|  | | | |

## Research Program Summary

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| --- | --- | --- | --- | --- |
| Abstract | | | | |
| Maximum of 300 words. Please include the program’s long-term objectives and goals, making reference to the program’s relatedness to the state-of-the-art in its field. | | | | |
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| Five Keywords | | | | |
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## Program Personnel

Please list key personnel who will participate in this Program. Clearly highlight the PI and Co-PI.

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| --- | --- |
| **Name** (First, middle, last) |  |
| **Position Title** |  |
| **Department** |  |
| **University** |  |
| **Telephone** |  |
| **Email** |  |
| **Role** | Principal Investigator |
| **Description of Role** |  |
| **Nationality** |  |

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| --- | --- |
| **Name** (First, middle, last) |  |
| **Position Title** |  |
| **Department** |  |
| **University** |  |
| **Telephone** |  |
| **Email** |  |
| **Role** | Co-Principal Investigator |
| **Description of Role** |  |
| **Nationality** |  |

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| --- | --- |
| **Name** (First, middle, last) |  |
| **Position Title** |  |
| **Department** |  |
| **University** |  |
| **Telephone** |  |
| **Email** |  |
| **Role** |  |
| **Description of Role** |  |
| **Nationality** |  |

Note: with more personnel please add more

#### **Program Description**

In no more than five (5) pages, please provide a description of the program. The program description should be written in a way that a multidisciplinary evaluation committee can understand it. Please include the following:

### Background and Significance

* + Briefly review relevant background
  + Explain the importance of the problem or critical barrier to progress in the field of the proposed research program.
  + Explain how the proposed program could improve scientific knowledge, technical capability, and/or engineering practice in one or more broad fields.
  + Describe how the concepts, methods, and technologies that drive this field could be changed if the proposed objectives and goals are achieved.

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### Innovation

* Explain how the proposed research challenges and seeks to shift current research practice paradigms.
* Describe any novel theoretical concepts, approaches or methodologies, instrumentation or intervention(s) to be developed or used, and any advantage over existing methodologies, instrumentation or intervention(s).

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### Methodology and Work Plan

* Describe the research/experimental methods that will be used
* Provide an outline of the general plan of work, including the broad design of activities to be undertaken and how the whole program will be effectively performed. The work plan should be structured into work-packages, tasks, milestones, and deliverables.
* If available, provide preliminary data/results

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### Multi-Disciplinary Multi-Year Approach

* Explain why and how a multi-disciplinary approach will be used to solve the research problem
* Explain why and how a multi-year approach will be used to solve the research problem
* Describe how the research team will bring complementary and integrated multi-disciplinary expertise to the program

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### Impact of the Research Program

* In no more than one (1) page, explain the relevance of this research to serving society and meeting the UAE Science, Technology and Innovation Policy.
* Demonstrate how including MSc students (if included in the proposed team) this will contribute to enhancement of labor market skills relevant to future needs of the UAE economy, and how it will aid in the development of the pipeline for PhD students.

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## Literature Cited

Include a list of cited references. Limit this to a maximum of one (1) page.

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## Active Funds

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Present Research Support | | | | | | | | | | | |
| Present research support available for this proposal? | | | | |  | Yes | |  | No | | |
| If yes, in no more than one (1) page, please provide a description of the obtained support/funding. Fully itemize below allinstitutional funds, and all other support available, includingall applications currently under consideration. If you have no current support and/or submitted applications, please indicate "none" where appropriate.  Note**:** Providing this information will not necessarily preclude you from receiving an award, but failure to include it may result in rejection of your application | | | | | | | | | | | |
| **Name of the fund/support** | | | | | | | | | | | |
|  | | | | | | | | | | | |
| **Contact details of the fund/support administrator** (name, title, telephone, email) | | | | | | | | | | | |
|  | | | | | | | | | | | |
| **Start and end date** (dd/mm/yyyy to dd/mm/yyyy) | | | | | | | | | | | |
|  | | | | | | | | | | | |
| **Total funding approved** (AED) | | | | | | | | | | | |
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| **Detailed budget** (breakdown of budget with clear description of each item and whether the item is provided as cash or in-kind) | | | | | | | | | | | |
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| **Intellectual Property (IP) arrangements** | | | | | | | | | | | |
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| Other Grants | | | | | | | | | | | |
| Provide titles, the source of funding, total budget, duration, your role, and percent time commitment in all active grants on which your name or that of your co-investigator(s) appear. Limit this to a maximum of two (2) pages. | | | | | | | | | | | |
| **Name of Researcher** | **Role of Researcher** | **Funding Source** | **Grant Title** | **% of Year Time** | | | **Total Budget** (AED) | | | **Start date** (dd/mm/yyyy) | **End date** (dd/mm/yyyy) |
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## Biographic Sketch of Research Team Members

Include the biographic sketch for research team members (PIs, co-PIs, and investigators). Each biographic sketch should be limited to a maximum of three (3) pages.

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| **Name** |
|  |
| **Position Title** |
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| **Educational Background** (undergraduate and graduate degrees, the years obtained, and the granting institutions) |
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| **Highest Qualification** |
|  |
| **Major** |
|  |
| **Webpage** (if applicable) |
|  |
| **ORCID** |
|  |
| **Relevant employment** (positions held, host institutions, employment period) |
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| **Relevant skills, honors, awards** |
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| **Significant Publications** (maximum 5 publications most relevant to the proposed program and maximum 5 other publications representing significant work) |
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| **Personal Statement** (1 page max to state the willing to collaborate in the proposed research program) |
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For every personnel member providing a bio-sketch please attach the following letter that should be signed by the HEI that she/he belongs to.

To

Department of Science Technology and Research

Ministry of Education

Abu Dhabi, United Arab Emirates

This is to certify that the Higher Educational Institute (HEI) [fill name of institution] acknowledges the participation of the researcher/investigator [fill name of researcher/investigator] in the proposed research program titled [fill title of proposed research program] for Collaborative Research Program Grant 2019.

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| Name of Higher Educational Institute | | | |
|  | | | |
| Name of institute’s Vice President for Research (or senior officer delegated such responsibilities where a HEI does not have a VP Research) |  | | |
| Signature of Vice President for Research (or designated senior officer where HEI does not have VP of Research) |  | Date |  |
| Stamp of higher education institute |  | | |

Note: With more personnel, please add more to this section.

## Reviewers

Below please nominate two (2) reviewers to review the proposed research. Kindly note that they should be in the field of the research.

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| --- | --- |
| Reviewer 1 | |
| Name |  |
| Department/University |  |
| Email |  |
| Phone |  |

|  |  |
| --- | --- |
| Reviewer 2 | |
| Name |  |
| Department/University |  |
| Email |  |
| Phone |  |

## Budget

The grant will be awarded to the winning team to receive AED 7.5 million over three (3) years. A typical award, covering personnel, operating and capital expenses, will be in the range AED 2, 000,000–2,500,000 per year. Please show the breakdown of your requested budget over the following performance periods:

* Year 1: 01 January 2020 to 31 December 2020 (12 months)
* Year 2: 01 January 2021 to 31 December 2021 (12 months)
* Year 3: 01 January 2022 to 31 December 2022 (12 months)

For each performance period, please itemize your requested budget by the following categories:

* **Personnel**: List only individuals and associated positions for which this proposal requests support. Please indicate each individual’s responsibilities for the program. Budget breakdown will include the salaries, wages, and fringe benefits.
* **Travel**: Itemize any travel required for the execution of the research.
* **Materials and Supplies**: Itemize materials and supplies for program by major category, e.g., chemicals, glassware, electrical components, etc.
* **Publication**: Include the papers charges (if available), and the costs of other publications like: thesis, reports, etc).
* **Subcontracts**: Provide a list of possible subcontracts (if required).
* **Other Direct Costs**: Provide itemized list of other expenses needed for program, e.g, laboratory user fees, commisions, etc.
* **Tuitions and Fees**: Itemize the tuitions and fees like: study fees for PhD and Master students.
* **Equipment**: Itemize any equipment needed specifically for the proposed program.
* **Software and Computers**: Itemize any software and computers needed specifically for the program.

**Proposed Budget**

Please fill *the Excel file (Budget*) with the breakdown of your requested budget over the period of the program.

**Budget Justification**

Please make sure that you provide text justifying the requested budget items.

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| --- |
| Personnel Justification |
|  |
| Travel Justification |
|  |
| Materials and Supplies Justification |
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| Publication Justification |
|  |
| Other Direct Costs Justification |
|  |
| Tuitions and Fees Justifications |
|  |
| Equipment Justification |
|  |
| Software and Computer |
|  |

## Host Institute Support

This section is to be completed by the President or the Vice-President of the research office at the host institution. Please set out the way in which the host institution will contribute in cash and non-cash ways to support the Collaborative Program (max 2 pages) such as:

* The capacity to reduce the teaching loads of successful applicant PIs to levels compatible with the needs of the research program.
* Initiatives to enhance administrative support pathways to eliminate blockages and delays.
* Evidence that the collaboration will contribute to optimizing infrastructure utilization across universities.
* Availability of training/mentoring opportunities/plan for broadening and strengthening trainees’ ability to conduct innovative and substantive research (especially for Emiratis emerging in the team).
* Cash Contribution.

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Following the letter should be signed by the host institute and provided with this application form.

To

Department of Science Technology and Research

Ministry of Education

Abu Dhabi, United Arab Emirates

This is to certify that the UAE Ministry of Education grant application form submitted by [fill name of principle investigator], who is the **Principle Investigator (PI)** in the proposed research program titled [fill title of proposed research program] for the Collaborative Research Program Grant 2019, has been reviewed and approved by the research office or equivalent of the higher educational institute (HEI) to which the applicant belongs.

I have read and understand the responsibilities (*refer to Guide to Collaborative Research Program Grant*) as a host institute for this program to provide full support.

|  |  |  |  |
| --- | --- | --- | --- |
| Name of Higher Educational Institute | | | |
|  | | | |
| Name of host institute’s Vice President for Research (or senior officer delegated such responsibilities where a HEI does not have a VP Research) |  | | |
| Signature of Vice President for Research (or designated senior officer where HEI does not have VP of Research) |  | Date |  |
| Stamp of higher education institute |  | | |