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|  | **PARTNER SEARCH FORM** |  |

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| **MY POSITION IN THE PROJECT PROPOSAL** |
| **I have a project idea and I am looking for a project partner**. *Please fill in Part A, B, C, D.* |
| I don’t have a project idea; but I want to participate in a project. *Please fill in Part A and B.* |

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| 1. **I AM SEARCHING PARTNER ON THE FOLLOWING CALL TOPICS/FROM** | |
| **Call Topics (If any)** | Polymers’ chemistry, polymeric hydrogels, water saving technologies for agriculture |
| **Keywords** | Polymeric hydrogels, synthesis, chemistry and application |
| **Country** | Turkey |

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| 1. **MY CONTACT DETAILS** | |
| **Institution Name** | Institute of General and Inorganic Chemistry, Uzbek Academy of Science |
| **Contact Person** | Dr. Ravshan Makhkamov |
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| **Website** | [www.academy.uz](http://www.academy.uz) |
| **Type of Organization** | **University**  **Public Organization**  **Research Organization** **Industry**  Other, please specify. |

1. **CONTACT DETAILS of the PROJECT PROPOSER**

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| 1. **MY PROJECT PROPOSAL DETAILS** | |
| **Call Identifier/Number** | Uzbekistan-Turkey International Scientific Project Competition Announced (Round 45). The joint international competition of scientific projects of the Ministry of Innovative Development of the Republic of Uzbekistan and the Council for Scientific and Technological Research of the Republic of Turkey (TUBITAK) is held on an initiative basis in all disciplines. |
| **Proposal Title** | Synthesis of polyacrylates based polymeric hydrogels for an efficient water-saving application in agriculture |
| **Call Deadline** | 25 June 2021 |
| **Brief Abstract of the Project proposal** | The problem of preservation and improvement of soil fertility becoming urgent due to the deterioration of soil conditions and increasing of anthropogenic degradation. During recent years in connection with the annual alienation of lands from agricultural use of fertile soils, the share of low productive and low fertility soil is increased. Thus, the project is aimed to solve the problems of agriculture, in particular the arid soil, resulting to the withering away sprout and low yields. A promising way to save irrigation water and enhance water-holding capacity of agricultural lands and plants is the use of efficient new hydrogels. For the preparation of such hydrogels, derivatives of polyacrylates are proposed in the project. The obtained in the project polymeric hydrogel can improve the efficiency of production of cereals, vegetables, fruit and ornamental crops, reduce the loss of water during prolonged drought and improve soil fertility. |

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| 1. **PROFILE of the PARTNER SOUGHT** | |
| **Country** | Turkey |
| **Role in the Project** | Collaborate in carrying out the proposed project, take part in conducting research, analysing data and discussing scientific results, preparing joint publications. |
| **Type of the Organization Sought** | **University** Public Organization  **Research Organization** Industry  Other, please specify. |
| **Expertise required** | A scientist in polymers chemistry and synthesis of polymeric hydrogels, researcher in testing and application of water saving technologies in agriculture, experienced in hydrogel’s technology labs. |

**Date: 04/05/2021 (day/month/year)**

**Deadline For Partner Search: 24/06/2021 (day/month/year)**

Please send the filled form to[**uidb@tubitak.gov.tr**](mailto:uidb@tubitak.gov.tr)