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Establishing charitable institutions for the advancement of science requires a well-thought-out strategy that integrates philanthropy, educational initiatives, and scientific research. The creation of such centers or institutions, particularly in developing countries, plays a vital role in building scientific capacity for sustainable development.

Here is a proposed framework for establishing such institutions:

1. Vision and Mission Definition:

- **Purpose:** Clearly define the core mission of the institute, focusing on promoting scientific research, education, and innovation. For example, the mission could be to “advance scientific knowledge in fields such as medicine, technology, and environmental sciences,” “support underfunded researchers and students,” or “foster fundamental and basic science for groundbreaking discoveries”.
- **Goals:** Establish measurable objectives, such as creating research centers, providing scholarships, organizing public lectures, and fostering international collaborations.

2. Securing Funding:

- **Endowment Fund:** Establish an endowment fund, where donations from wealthy individuals, corporations, or foundations are invested, and the returns are used to fund the institute’s activities.
- **Crowdfunding:** For smaller-scale projects, consider crowdfunding platforms to gather contributions from a wide audience interested in science advancement.
- **Government Support:** Seek government grants or partnerships for research in specific scientific fields.
- **Corporate Partnerships:** Collaborate with businesses that may benefit from scientific advancements. This can include pharmaceutical companies, tech firms, and energy companies.

3. Infrastructure and Facilities:

- **Educational Facilities:** Build state-of-the-art lecture halls, classrooms, and laboratories for scientific studies and research development.
- **Research Centers:** Establish specialized research centers focused on key areas such as biotechnology, environmental sciences, artificial intelligence or national labs.
- **Libraries and Data Centers:** Create resource-rich libraries with access to scientific journals and research publications. Set up database centers for computational research and development of data science.

4. Collaboration with Academia and Industry:

- **Academic Partnerships:** Partner with established universities and research institutions to provide access to experienced faculty, resources, and funding.

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- **Internships and Fellowships:** Offer internships and fellowships for students and researchers to conduct cutting-edge research. These can be funded through private donations or corporate sponsorships.
- **Industry Collaboration:** Foster relationships with industries in relevant fields, allowing researchers to apply their work to practical solutions. This can lead to innovations and technological advancements with real-world applications.

5. Educational Programs and Public Engagement:

- **Scholarships and Grants:** Establish scholarship programs for students pursuing degrees in scientific fields and offer research grants for promising scientists.
- **Public Awareness Campaigns:** Run educational campaigns to raise awareness of the importance of science in solving global challenges (e.g., climate change, health, technology). This is very important to establish journals or newsletters based on scientific popularization.
- **Workshops & Seminars:** Organize public lectures, workshops, and seminars where experts can share their knowledge and inspire future generations of scientists.
- **Online Platforms:** Develop online platforms to offer virtual courses, webinars, and public resources to make scientific knowledge free accessible to all.

6. Governance and Accountability:

- **Transparent Governance:** Establish a clear governance structure with independent boards of trustees, advisory councils, and scientific committees to oversee the institute's activities.
- **Monitoring and Evaluation:** Regularly assess the impact of the institute's work through independent reviews, ensuring that funds are being used effectively for scientific advancement.

7. Sustainability and Long-Term Impact:

- **Sustainable Practices:** Ensure that the institute operates with environmentally sustainable practices and seeks long-term

viability through continuous endowment growth and innovative funding models.

- **Global Outreach:** Consider setting up satellite institutes or partnerships with international organizations to expand the institute's reach globally.
- **Impact on Society:** Continuously evaluate the social and scientific impact of the institute's work, ensuring that it addresses pressing global issues and contributes to the broader good.

8. Proposed Steps to Begin:

- **Form a Core Team:** Gather a team of scientists, educators, philanthropists, and community leaders to develop the vision, structure, and funding strategies for the institution.
- **Initial Fundraising:** Launch initial fundraising campaigns, focusing on wealthy philanthropists, corporations, and international foundations.
- **Select Location and Infrastructure Development:** Choose a strategic location for the institute (possibly near universities or in regions with scientific potential), and start building the necessary infrastructure.
- **Pilot Programs:** Start with pilot programs in education or research and scale them up as resources and funds grow.

Conclusion:

Academies of science in Islamic countries need to develop such a proposal and present it to non-governmental organizations for implementation and training. In this program, the role of distinguished scientists is crucial. For the successful execution of this program, it is essential for scientists to engage in dialogue with policymakers to establish the foundational frameworks for creating philanthropic hubs that advance science at the national, regional, and international levels. It is proposed that a gathering of academies of sciences from Islamic countries, supported by the Islamic World Academy of Sciences, be organized under the theme "Permanent Secretariat for the Establishment of Philanthropic Centers for the Advancement of Science," and decisions be made regarding this important strategic issue.