



# Science and Technology Development Fund (STDF)

By

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# Outline

- About STDF
- Types of STDF grants
  - Open calls
  - Targeted calls
  - International joint calls
- General rules.
- STDF website and proposal submission
- Review process
- Grant management tips

# About STDF

- STDF was established in 2007 to:
  - Provide funding for scientific research and technology development.
  - Support the complete cycle of scientific research and product development
- Budget was 20 million pounds in 2007 and increased to more than 450 million pounds in 2011.
- Priority areas are: Energy (renewable), water, agriculture, Health, and ICT
- Funding other areas (including humanities) is also available.

# Examples of priority areas



## Egypt's S&T priority areas (Phase I)

### 1) Energy Resources

- Technology Transfer of Wind Turbines.
- Concentrated Solar Power.
- Photovoltaic thin films with Nanotechnology.

### 2) Water and Environment

- Non-Traditional Water Resources Management.
- Desalination with renewable energy sources.

### 3) Food and Agriculture

- Increasing yield of economic crops.
- Increasing marine aqua-culture of fishes.

### 4) Health

- Combating Hepatitis C virus disease.

### 5) Space, Remote sensing and ICT

- Earth observation and Climate Change.
- Super-, grid-computing and data mining.



[www.stdf.org.eg](http://www.stdf.org.eg)

# Highest funded Universities\*

Institution	Number of projects awarded	Budget (million L.E.)	% of Budget
Cairo University	59	53.6	12.1 %
Alexandria Univ.	33	36.5	8.2 %
Ain Shams Univ.	24	30.8	6.9 %
Menofia Univ.	19	16.7	3.8 %
Mansoura Univ.	17	14.6	3.3 %
Assiut Univ.	14	14.5	3.26 %
المركز القومي للبحوث	95	83.4	18.8 %

\* Based on a report released in February, 2012

# Projects funded in Assiut Univ.

	National Research Grants	Joint Research Grants	Targeted Calls	Capacity Building	Total
Number of projects	7	4	1	2	14
Budget (millions L.E.)	6.02	2.95	0.38	5.11	14.46

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# Open calls

- You can submit your proposal any time during the year.
- Not specific to a certain field
- Funding range from 100,000 to 3 million L.E.
  - Young Researchers grant
  - Reintegration grant
  - Basic and Applied Research grants
  - Research Support and Technology Development grant
  - Demand Driven projects
  - Short Term Fellowships



# Basic and Applied Research grant

Budget	Up to 1 million L.E.
Eligible costs	Salaries Travel Equipment Other (Chemicals, office supplies..etc) Indirect cost
Principal investigator (PI)	Any researcher working in Egypt
Duration	Up to three years

# Young Researchers grant

<b>Budget</b>	<b>Up to 750,000 L.E.</b>
Eligible costs	Salaries Travel Equipment Other (Chemicals, office supplies..etc) Indirect cost
Principal Investigator	<ul style="list-style-type: none"><li>•Less than 35 years old</li><li>•Published at least 2 papers in int. journals</li><li>•The research team must include at least two Assistant Lecturers/Assistant Researchers</li></ul>
Duration	Up to three years

# Reintegration grant

Budget	Up to 1,5 million L.E.
Eligible costs	Salaries Travel Equipment Other (Chemicals, office supplies..etc) Indirect cost
Principal Investigator	<ul style="list-style-type: none"><li>•Less than 35 years old</li><li>•Obtained PhD within past 3 years</li><li>•Published 3 papers in Int. journals</li><li>•Obtained PhD from one of top ranked 250 universities</li><li>•The research team must include at least two Assistant Lecturers/Assistant Researchers</li></ul>
Duration	Up to three years
Other benefits	Can apply for a Capacity building fund up to 5 million pounds to establish a lab

# Pre-proposal process

- Applicable only to The basic and Applied research, Young researchers, and Reintegration grants.
- Two phases submission process
  - Interested scientists are requested to submit pre-proposal (10 pages maximum)
  - Pre-proposals will be evaluated and PIs of accepted pre-proposals will be invited to submit full proposals.
  - Applicants will be notified with evaluation results within 6-8 weeks.

# Research Support and Technology Development grant

Budget	Up to 100,000 L.E.
Eligible costs	<ul style="list-style-type: none"> <li>• Small equipment and tools and consumables</li> <li>• Fees for use of facilities in other institutions</li> <li>• Local travel</li> <li>• Expenses related to <b>patent filing or IP management</b></li> <li>• <b>Technology transfer activities</b></li> <li>• <b>Incentives</b> for team members (20% max.)</li> <li>• Overheads (5%)</li> </ul>
Principal Investigator	<ul style="list-style-type: none"> <li>• Any Egyptian working at an Egyptian institution</li> <li>• <b>Teaching assistants can apply as PI's.</b></li> <li>• Grant is specially targeted to fund M.Sc and PhD research</li> </ul>
Duration	1 year
Other benefits	Graduation projects can be funded (supervisor will be PI)

# STDF short term fellowship (STF)

Purpose of fellowship	Fund short term visits by Egyptian researchers to foreign institutes to exchange knowledge
Eligible costs	<ul style="list-style-type: none"> <li>• Air tickets (up to 15,000 L.E.)</li> <li>• Salary in the host country (according to Missions directorate rules)</li> <li>• Preparatory research in Egypt before travel (up to 15,000 L.E.)</li> <li>• Publications costs (up to 3,000 L.E.)</li> <li>• Incentive after returning and submitting final report (5,000 L.E.)</li> </ul>
Applicant	<ul style="list-style-type: none"> <li>• Any Egyptian working at an Egyptian university or research institution.</li> <li>• <b>PhD holders and Teaching assistants</b></li> </ul>
Duration	6 weeks to 4 months
Requirements upon return	<p>PhD: acceptance of one manuscript or submitting one collaborative funding proposal.</p> <p>Non-PhD holders: Successful implementation of at least one experiment (analysis) or Evidence for mastering new technique/technology.</p>

# Demand-Driven projects

<b>Purpose of call</b>	<ul style="list-style-type: none"><li>•Dedicated to projects that meets urgent needs</li><li>•Encourage scientists to respond to society needs and pressing challenges facing the society.</li><li>•Examples: Development of Sinai and Suez Canal Corridor , Textiles industry, Energy generation and management.</li></ul>
Budget	Up to 3 million L.E.
Eligible costs	<ul style="list-style-type: none"><li>•Left open to the applicant</li><li>•“Incentives Should be reasonable”</li></ul>
Principal Investigator	<ul style="list-style-type: none"><li>•Any Egyptian working at an Egyptian research institution, NGO, or company</li></ul>
Duration	3 years

# Innovation grant

<b>Purpose of call</b>	<ul style="list-style-type: none"><li>•Support technology development through prototyping or pilot-scale demonstration</li><li>•Support innovative research from all fields of science</li><li>•extend and build partnerships, and strengthen links between academia and Industry</li></ul>
Budget	Up to 3 million L.E.
Eligible costs	<ul style="list-style-type: none"><li>•Left open to the applicant</li><li>•Incentives Should be within 15% of the total budget</li></ul>
Principal Investigator	<ul style="list-style-type: none"><li>•Any Egyptian working at an Egyptian research institution, NGO, or company</li></ul>
Duration	3 years



# Faculty for factory

Purpose of fellowship	Bridge the gap and enhance the collaboration between the academic community and the industry
Procedures	<ul style="list-style-type: none"><li>•Industrial entity describes the R&amp;D problem.</li><li>•STDF announces submitted problems</li><li>•Interested researchers submit an application summarizing their relevant experience.</li></ul>
	<ul style="list-style-type: none"><li>•STDF matches a researcher(s) to each industrial entity.</li><li>•Researcher and industrial entity prepare a detailed proposal.</li><li>•Proposal is subjected to review and approval by STDF.</li></ul>
Eligible costs	<b><i>Researchers honorarium up to a maximum of 15,000 LE per months to be divided between all researchers</i></b>
Duration	Two years
Restrictions	Only one PhD holder. The rest of the team members (if any) shall be graduate or senior undergraduate students only.

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# Capacity Building Grants

Budget	Up to 5 millions L.E.
Eligible costs	<ul style="list-style-type: none"><li>•Equipment purchase</li><li>•Customs, shipping and handling, and taxes.</li><li>•Equipment repair (up to 20% of the original equipment price)</li><li>•Technical support.</li></ul>
	<ul style="list-style-type: none"><li>•Infrastructure (wiring, A/C and ventilation ...etc)</li><li>•<b>No indirect costs</b></li></ul>
Principal Investigator	<ul style="list-style-type: none"><li>• Applicant is the institution itself.</li><li>• PI should be a PhD holder</li></ul>
Duration	1 year
Previous calls	March 2010 May 2012

# Centers of Scientific Excellence

Budget	Up to 10 millions L.E.
Purpose	Establishing centers of scientific excellence, <b>based on existing capabilities and competences</b>
Eligible costs	<ul style="list-style-type: none"><li>•Equipment purchase (up to 6.75 million)</li><li>•Infrastructure (wiring, ventilation ...etc) up to 0.5 million L.E.</li><li>•Chemicals and consumables up to 2 million L.E.</li><li>•<b>Incentives</b> for team, accounting, admin. staff up to 0.5 million</li><li>•Training, travel, conferences up to 0.2 million L.E.</li></ul>
Applicant	<ul style="list-style-type: none"><li>• Applicant is the institution itself.</li><li>•PI should be a PhD holder</li></ul>
Duration	3 years
Previous calls	October 7 <sup>th</sup> , 2012

# Topic specific calls

Grant	Year announced	Purpose of call
HCV grant	2009, 2010	HCV related research
Renewable Energy	2009, 2010	Developing 1.5 MW Wind Turbine design, fabrication and testing technologies in Egypt
Water Desalination	2010	Development of new desalination systems
Innovation grant	2010	Innovation support, prototype development, alleviate business and market risks
Agriculture grant	2010	Improving food crop productivity, profitability of farmers, fish production, and milk and meat production

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# Joint calls

Grant	Year announced	Budget total	Purpose of call
German-Egyptian •Research •Mobility	2008, 2010, 2011, 2012	200,000 €	<ul style="list-style-type: none"> <li>•Generate collaboration opportunities between Egyptian and foreign researchers.</li> </ul>
Egypt-US •Research •Mobility	2009, 2010, 2011	750,000 \$	<ul style="list-style-type: none"> <li>•Usually budget covers salaries, equipment, and travel costs.</li> <li>•Two identical proposals should be submitted by the Egyptian PI (to STDF) and collaborator PI (to foreign agency).</li> </ul>
Egyptian-Japanese •Research •Seminars	2009, 2010, 2011	145,000 L.E + 2.5 million JPY	<ul style="list-style-type: none"> <li>•Some of these grants are only directed towards mobility of researchers.</li> </ul>
Egyptian-French •Research •Chairs of Excel.	2010, 2011, 3 <sup>rd</sup> Jan 2013	200,000 €	

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# Intellectual property rules

- Intellectual property (IP) rights generated from your research is owned by STDF.
- IP could be: patents, utility models, or copyrights on software
- Inventors still get a share from any revenue generated from the IP according to the following table:

Revenue (million L.E.)	Inventors' Share
< 1	15 %
1 – 5	12.5 %
5 – 15	10 %
15 – 30	7.5 %
30 – 60	5 %
60 -100	3 %
> 100	2 %

# General rules for any grant-I

- You cannot have more than two projects running at the same time as a principle investigator. You can still apply as a co-PI.
- You have to specify the percentage of time you allocate to each project (total of all projects can not exceed 100% 😊)
- Total of salaries must not exceed 25% of total budget.
- Travel budget must not exceed 10% of the total budget (capped at 100,000 L.E. max.)
- To attend a conference you must have an accepted paper as an Oral presentation not a poster.

# General rules for any grant-II

- Indirect costs can not exceed 20% of budget minus equipment cost (capped at 200,000 L.E.).
- Indirect costs can be only directed to:
  - Bonuses for accountants and administrative personnel (capped at 25% of indirect cost)
  - Repair and maintenance of equipment and machinery.
  - Funding of Technology Transfer Offices, and their development.

# General rules for any grant-III

- Any funded project must produce at least one paper in a peer reviewed international journal or a patent.
- Any correspondence between the PI and STDF should go through the university president.
- PI can not stay out of Egypt more than 1 month per year and needs to get approval from STDF to travel.
- Equipment purchased using STDF grants should be made available to all STDF grant holders.

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# STDF website and Proposal submission

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**OPEN CALLS**

**STDF Grant for Demand-Driven Projects (No Deadline)**

For more information, contact:  
Marwa Alaa E-mail: [marwa.alaa@stdf.org.eg](mailto:marwa.alaa@stdf.org.eg)

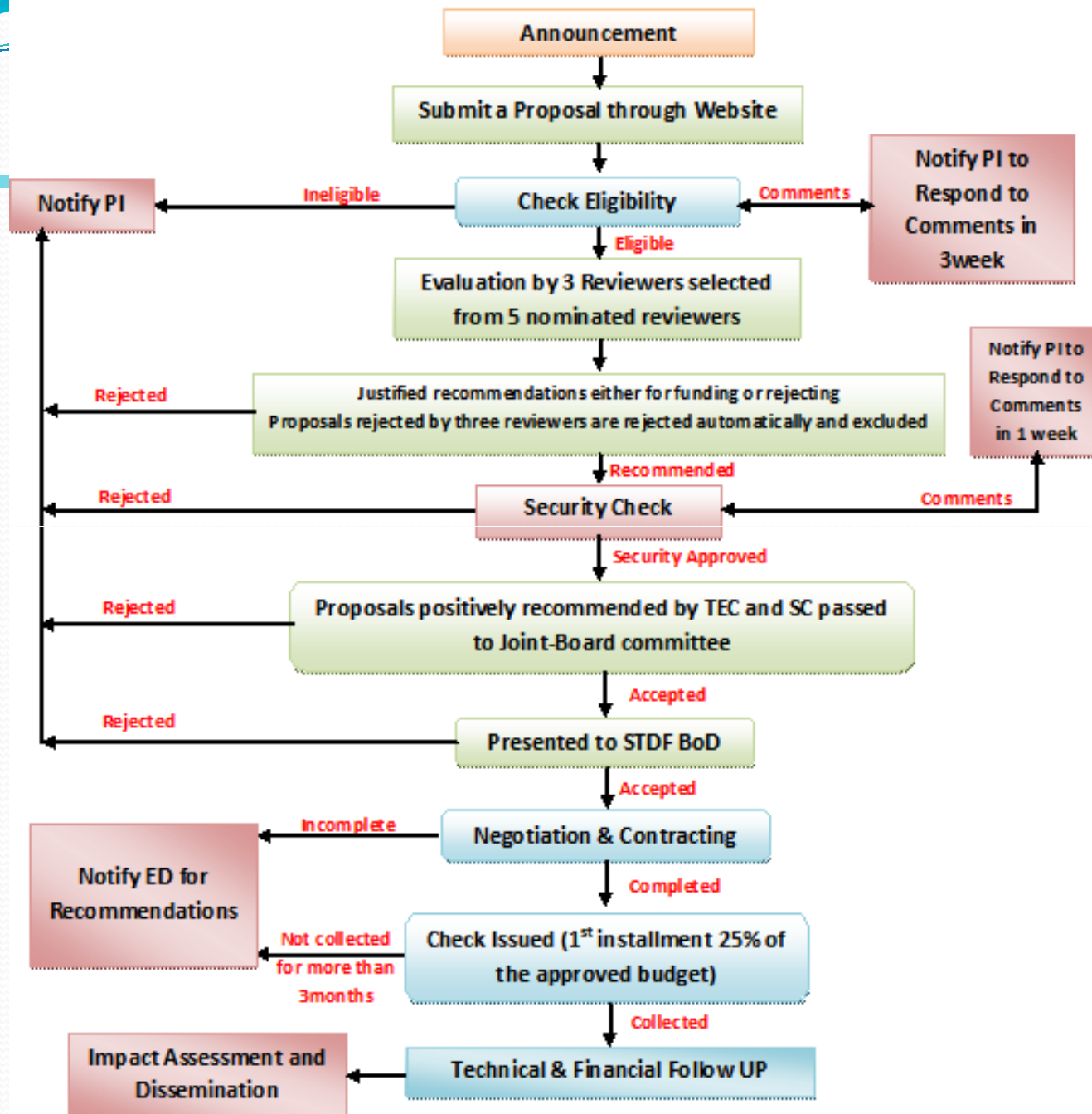
**German Egyptian Scientific Projects - GESP (Deadline December 15, 2012)**

[www.stdf.org.eg](http://www.stdf.org.eg)

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# STDF Workflow



The overall process of peer reviewing takes up to 6 months (submission-contracting)



# Review Process-I

- PI submits proposal, GANT chart, and LFM on the STDF website.
- Administrative staff check proposal format and ensure it satisfies STDF requirements.
- Proposal is sent to technical reviewer(s).
- Reviewer(s) recommend proposal acceptance or rejection.
- STDF steering committee examines reviewers comments and gives the final decision on proposal acceptance or rejection.
- Contract negotiations.
- Contract is signed by PI, university president, and STDF director.

*There is a new preproposal step for the 3 national grants*

# After proposal acceptance

- The signed contract is sent to the Ministry of finance to open a bank account (حساب خزانة موحد بالبنك المركزي المصري).
- التوقيع الأول للشيكات يكون للباحث الرئيسي و التوقيع الثاني يكون لمندوب وزارة المالية بالوحدة الحسابية التي تتولي حسابات المشروع (مثلا حسابات كلية الهندسة أو كلية العلوم أو الحسابات المركزية... إلخ)
- Once the bank account is opened, STDF is notified.
- STDF prepares the first installment check and notifies the PI to collect it.
- From proposal submission to receiving the fund, expect around 6~10 months.

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# Grant management tips

- Make sure your team is dedicated to the project (hire full time research assistants if you need).
- Divide indirect costs between the university, your faculty, and your department (e.g. 50% to univ., 25 % to faculty, and 25% to department).
- Specify admin salaries early and get the university president approval.
- Use part of the indirect costs to furnish your lab space (Furniture, connect internet, air conditioning, PCs...etc).

# Thanks for your attention

This presentation will be available on the KTO website

[www.aun.edu.eg/kto](http://www.aun.edu.eg/kto)