Summary of RSIF in Ethiopia

- 8 Ethiopian RSIF doctoral scholars enrolled
- 10 PhD scholars and faculty trained
- 14 training courses held
RSIF is the first Pan-African Science fund of its kind connecting innovative minds to resources for revolutionary solutions.

It is the flagship product of PASET, an initiative led by African governments aimed at building skills of citizens of sub-Saharan Africa countries in the field of applied sciences, engineering, and technology for national economic growth on the continent. RSIF builds sustainable doctoral training, highly advanced research and innovation ecosystems to develop transformative technologies in Africa for economic growth and development.
At least 40% of the beneficiaries are women and priority is given to young faculty without a PhD.

RSIF competitively selects and harnesses the brightest minds with:
(i) doctoral scholarships at Host Universities in Africa and ‘sandwich’ training at selected International Partner Organizations, (ii) research awards, and (iii) innovation awards to faculty of graduated RSIF scholars.

Ethiopia’s collaboration with RSIF

Ethiopia is a founding member of PASET. Ethiopia participated at the 5th PASET Forum and has expressed its intention to contribute to RSIF. The Minister of Science and Higher Education represents Ethiopia in the PASET Governing Council (GC), and the Director for Capacity Building, sits in the PASET Executive Board (EB).

The potential of Ethiopia’s innovative expansion due to investment in RSIF is multiplied when leveraged by the funds through matching support from various donors, including the Government of Korea, international partner institutions and others.

By contributing to RSIF, Ethiopia will benefit from joint resource mobilization with other countries and capacity building for PhDs and research and innovation far into the future. PASET aims to mobilise over USD 500 million into the RSIF permanent fund, with an estimated 20% to be allocated to research and innovation projects for the benefit of citizens and institutions of participating countries. Many African countries are interested to be part of this.

PASET members have prioritized five cutting-edge thematic areas that will drive growth on the continent:

- ICTs including big data & artificial intelligence
- Minerals, mining & materials engineering
- Energy including renewables
- Food security & agribusiness
- Climate change
As a contributor to RSIF, Ethiopia would benefit in more ways than through the cost-effective training of its doctoral students.

Countries also benefit from efficient centralized administration of the scholarship and other grants, support for the RSIF scholars to ensure that they complete on time, as well as regular monitoring reports on the progress of their students. The pooling of funds, the highly competitive selection of host universities, international partners and students, and the efficient administration of the fund enhances the value and increases the benefits.

Ethiopia’s participation in RSIF will benefit the entire Ethiopian higher education, science and innovation ecosystem. All RSIF scholars will undergo high quality doctoral training in competitively selected SSA universities partnered with international universities, with study abroad for part of the time, at a fraction of the cost of sending students abroad for a full time PhD. On successful completion of the PhD, the students will be eligible for research and innovation grants.
Highly Skilled Human Capital as a Driver for the Ethiopia National Development Plan

The rationale for RSIF is that Africa requires world class scientists in priority thematic disciplines that are relevant to national economic growth across sub-Saharan Africa. Some of these areas include orphaned research areas such as mining, minerals and materials science, energy and information and communication technology among others. This African led program aims to support the training of African innovators and leaders, with focus on women and faculty, to be able to strengthen the capacity of universities to train at the doctoral level and undertake innovative and impactful research for the future needs of the country.
NURTURING HIGH-IMPACT PARTNERSHIPS

and Strengthening Research and Innovation capacity at the Haramaya University

In 2021, Haramaya University, Africa Center of Excellence for Climate Smart Agriculture and Biodiversity Conservation (ACE Climate SABC), was competitively selected as an RSIF African Host University in the PASET priority thematic area of Climate Change. The selected PhD programme at HU is in Climate Smart Agriculture and Biodiversity Conservation. HU will start receiving RSIF funded doctoral scholars in Cohort 4 from early 2022.

As an RSIF African Host University, HU will benefit from various capacity building and technical support, such as strengthening internationalization and accreditation.

Through the Ethiopian RSIF PhD scholars and the RSIF Host University, Ethiopia benefits from linkages with universities across Africa as well as with RSIF international partner institutions for the RSIF’s ‘sandwich programme’ - whereby students spend 6-24 months at an advanced institution conducting collaborative research.

RSIF supports the establishment of research networks to support Ethiopian Universities.
Through PASET RSIF the cost of PhD training is significantly lowered, while also reducing inbreeding in Ethiopian universities since PhD training will be done in other African universities and international partner institutions.

By working closely with academic institutions, relevant investors and governments and other stakeholders within sub-Saharan Africa; specialized knowledge will be integrated in the region and transferred to the future generation.
The RSIF Programme has supported more than 180 students. Ten of these are Ethiopians. More scholars will be selected in Cohort 4 in late 2021. The Ethiopian RSIF graduates are equipped with advancing technologies and strategic research skills for innovation solutions. This provides opportunities for building new university departments that respond directly to national priorities, boosting Ethiopia's capacity to train at the PhD and postdoctoral level. With the ability to undertake high quality research, Ethiopia will be well positioned to lead improved outputs, ranking and prestige.

Breaking Barriers for Women in Science

Women’s participation in research remains low in Africa, with women making up only 30% of the science community. RSIF is shifting that perspective.

50% (four of eight) of the Ethiopian RSIF PhD scholars in the first three cohorts are female. RSIF assigns attention to not only women, but also, underrepresented groups, seeking to promote family-friendly policies as well as language and accessibility measures.

Training Applied Researchers in Science and Engineering Fields

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RSIF Training Courses Provided

1. Research Communications and social media
2. Digital Storytelling
3. Reference management & open access
4. Grant writing
5. E-Resources
6. Grievance address mechanisms
7. Sexual harassment
8. Strategies for a successful PhD
9. PhD proposal writing
10. Responsible conduct of research including research ethics
11. Introduction to information literacy
12. Introduction to research methods and statistics, data analysis and management
13. Science presentations
14. Science posters
In a published article, three female RSIF PhD scholars on international sandwich placements in Korea and USA, discuss the impact of COVID-19 pandemic on their personal lives and research journeys. Their immense resilience to pursue despite the unprecedented challenges is evidence of the determination and caliber of RSIF scholars. While the COVID-19 pandemic is affecting all scientists in general, women scientists, especially those with young families, are uniquely impacted. RSIF not only ensures that women scientists enter and thrive in PhD programmes, but also, guarantees that all its scholars are able to circumvent the challenges related to the pandemic. icipe, RSIF’s RCU is already providing support to scholars in various ways, including online training support, and psychosocial support on issues like mental health. In addition, RSIF is working with partner universities and students towards timely progression in research and overall course completion.

Faculty members engaged in PhD training at HU are eligible to apply for RSIF Research and Innovation Awards. These competitive grants enable faculty members to advance their research and to help their PhD students generate exceptional research results to solve pressing African challenges.

RSIF’s establishment of international networks provides HU with a global pool of like-minded innovators.

RSIF is encouraging partnership with international partners and private firms to leverage some of the brightest minds on the continent. This will contribute to enhanced partnership in higher education, science and innovation ecosystem and collaboration in training, research and innovation.
Meet Fenet Belay Daba.
An RSIF PhD scholar at the Bayero University Kano, Nigeria.

“Through my RSIF PhD research, I will be a problem solver for my country, serve the community and use this knowledge to teach students, because I am a lecturer at Jimma University”, says Fenet Belay Daba, PhD Student at the Africa Centre of Excellence in Dryland Agriculture (CDA), BUK. Her research is on climate change adaptation strategies.

Click here to view film

Meet Haftu Mengesha Abrha
An RSIF PhD scholar at Université Félix Houphouët-Boigny, Côte d'Ivoire.

Africa Center of Excellence for Climate Change Biodiversity and Sustainable Agriculture (CCBAD).

“My expectation is to solve problems linked to climate change by doing research that is linked to problems on the ground.”

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SPOTLIGHT ON AFRICA’S FUTURE LEADERS

in Science, Engineering and Technology

"Through my RSIF PhD research, I will be a problem solver for my country"

RSIF PhD scholar Fenet Belay Daba
Bayero University Kano, Nigeria, Africa Centre of Excellence in Dryland Agriculture (CDA)
### Ethiopian RSIF scholars and Research Areas

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<td><strong>Birki Gurmessa</strong></td>
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See repository of RSIF Scholar Research [here](#)
Country contributions have been earmarked to scholarships, and in some cases to support research and innovation projects, aligned with national needs. So far, most countries have focused on doctoral training.

More importantly, RSIF aims to create a permanent vehicle for supporting science, technology and innovation capacity building through an endowment fund that is being established by the governments.

Ethiopia is encouraged to take up a leading role in PASET through contributing to RSIF and investing in the RSIF permanent fund for lasting returns.

Ethiopia can explore innovative ways of raising more funds for RSIF. By providing tax incentives for private sector companies investing in RSIF, by recommending RSIF to its development partners and by making a fixed annual budgetary allocation to RSIF, Ethiopia will be in alignment with its commitment to PASET’s vision.
African governments make good their pledges for advanced training in applied sciences and technology, as continental demand soars.

RSIF provides full doctoral scholarships and grants for research and innovation, to boost technical and scientific capacity for the advancement and use of transformative technologies to tackle Africa’s most pressing challenges.

Read more

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