NGI Zero: come work for the internet

Funding the Next Generation Internet

European Commission Directorate-General for Communications Networks, Content and Technology

825322 / 825310
TODAY WE CREATE THE
INTERNET
OF TOMORROW

nlnet FOUNDATION
“From utopia to dystopia in just 29 short years”

“We demonstrated that the Web had failed instead of served humanity, as it was supposed to have done, and failed in many places. The increasing centralization of the Web ended up producing—with no deliberate action of the people who designed the platform—a large-scale emergent phenomenon which is anti-human.”

Tim Berners-Lee
Leaving the Gold Rush behind us...
the next generation internet initiative cordially invites you to

work for the internet

Full time and part-time paid and unpaid positions available.

- Work from home (or anywhere you like)
- Collaborate with people from all over the world
- Challenge your talents to the extreme
- Help save future generations
Starting point: NGI Vision

“The overall mission of the Next Generation Internet initiative is to re-imagine and re-engineer the Internet for the third millennium and beyond. **We envision the information age will be an era that brings out the best in all of us.** We want to enable human potential and creativity at the largest possible scale. In order to preserve and expand the European way of life, we shape a value-centric, human and inclusive Internet for all.”
Moonshot ++ effort

- The internet is the **largest** and **most pervasive** technical construct ever made by humans.
- And we need to change it with 3.8+ billion people ‘on board’.
- Work consistent and forward-thinking. No time to lose.
An engineering race with high stakes

Wernher von Braun

Robert Oppenheimer
Thorough and strategic approach

Work up from **user needs**, **operational understanding** and **systemic requirements** to create a **coherent framework**

Design for sustainable **real-world impact** and consistently build on **best practices** in the **public interest**
Next Generation Internet Research & Innovation actions

- Search and discovery
- Privacy and trust enhancing technologies
- Distributed data
- Service portability and data decoupling
- Architecture renovation
- Strengthening internet trustworthiness
- Internet hardening
- Fair access and freedom of use
- Securing end-user rights
- User empowerment
- Verification & accountability
- Greening the internet
- Automation mechanisms for NGI
- Internet maintainability
- Service resilience
- Mobile privacy
- Transparency mechanisms
- Open hardware
- Trustworthiness
- Scalability
- Inclusiveness

H2020
Facilitate incremental innovation

'R&I Actions' should encourage, when relevant, open source software and open hardware design, access to data, standardisation activities, access to testing and operational infrastructure as well as an IPR regime ensuring lasting impact and reusability of results.
Our approach

Design a light-weight and confidential application procedure providing adequate insight into technical capabilities as well as the urgency, relevance and relative cost effectiveness of the projects proposed.

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<thead>
<tr>
<th>Weight</th>
<th>Criterion</th>
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<tbody>
<tr>
<td>30%</td>
<td>Technical excellence/feasibility</td>
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<tr>
<td>40%</td>
<td>Relevance/Impact/Strategic potential</td>
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<tr>
<td>30%</td>
<td>Cost effectiveness/Value for money</td>
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Improve ideas where needed

.. we use a staged approach which identifies and amends missing or inadequate aspects of the proposals prior (and conditional) to the start of a project.

... and guide and support projects with essential QA and strategic aspects that require additional expertise
Apply best practices ("act as if its for real")

- Make sure every project delivers on **accessibility**
- Make sure projects can be **localised**/internationalised
- Make sure **licensing** is compatible and all legal stuff is in order
- Support with dealing with **standards** setting organisations
- Provide a **responsible disclosure** procedure
- Provide **documentation** for users/developers
Software security

Mentor with applying best practices in secure software development across all projects

Create a reproducible build environment and help design automated tests

Perform an early stage independent security scan of the project plan

Make software available early to allow for ‘many eyeballs’

Independent security scan of the actual outcomes
And other best practices...

Liaise and mentor projects with interacting with ecosystem and target groups, e.g. technical and operational community, digital rights organisations, free software community, businesses, consumer organisations, end users.

Manage and support diversity and gender bias in the design phase.
The Team

Accessibility.nl

APC Association for Progressive Communications

Center for the Cultivation of Technology

commons caretakers

fsfe

ifrOSS

nlnet Foundation

NixOS

p.s.:
The larger ecosystem
Summary

Competitive calls every two months until the budget is allocated.

Walk the talk:
- Inclusion
- Security
- Localisation
- Open Standards
- Free & Open Source
- Deliver to deploy

5.6 million euro in small grants between now and 2021
join us and help discover and shape the next generation internet

and claim your spot in human history

Full time and part-time paid and unpaid positions available.

Read all about it on

✉️ https://nlnet.nl/discovery
✉️ https://nlnet.nl/PET
✉️ https://ngi.eu
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