

DRAWDOWN

WASTE-TREATMENT, NITROGEN CAPTURE
MAINTENANCE, URBAN DESIGN
CLEAN STREETS, ELECTRIC VEHICLES
LESS FLEETING, LOW-CARBON DIET
/ INCREASED RESILIENCE /
WINNING INVESTMENT

MOSTATS / DISTRICT HEATING/COOLING /
EDUCATING GIRLS / ELIMINATING FOOD
WASTE / LOW FLOW HYDRO / SHARING
ECONOMY / SOLAR MICROGRIDS / FUEL
CELLS / GREENROOFS / LIVING BUILDINGS
/ DYNAMIC SKINS / AIR HEAT PUMPS /
KITE SAILS / ROTATIONAL GRAZING /
SMART GRID/SMART METERS / SOLAR
FARMS / TIDAL ENERGY / WIND TURBINES
/ CONGESTION PRICING / GREYWATER
SYSTEMS / HIGH SPEED RAIL / VERTICAL
FARMING / AFFORESTATION / AVOIDED
DEFORESTATION / BIOCHAR / BIOLOGICAL AGRICULTURE / CARBON FARMING
/ NO-TILL FARMING / PASTURE CROPPING / BIKING / REFORESTATION /
DEMAND RESPONSE / LOW-FLOW FIXTURES / SOLAR HOT WATER
/ SOLAR PV / CHILD HEALTHCARE / FAMILY PLANNING /
PYROLYSIS / ENERGY STORAGE / WHITEROOF /
ALGAE BIOFUELS / CAR EFFICIENCY / AGRO
FORESTRY / CENTRATED SOLAR /
RECYCLING TRUCK BUILDING /
INTEGRATED SOLAR /
REFORESTATION /
BIOMASS
HEAT

THE TURNING POINT FOR HUMANITY AND CLIMATE CHANGE

Paul Hawken / Amanda Ravenhill

2015 - 2045

PROJECT DRAWDOWN — LOOKING AT A FUTURE OF POSSIBILITIES

DRAWDOWN ('drô,doun) n. The point at which concentrations of greenhouse gases in the atmosphere begin to decline.

Project Drawdown is a book, open-source database, and digital platform describing how a hundred solutions deployed at scale can alter the composition of our atmosphere and help forge a path toward temperature decline. Each solution is given a two-page spread that details its history, how it works, where it is implemented, its potential impact, and path to global adoption. The goal of the book is to introduce solutions and the data that underpin them, and show our readers that what may seem unimaginable is actually possible. In fact, it's already happening.

Our comprehensive range of solutions were chosen because of their potential to either reduce carbon emissions, replace existing technologies/practices, or sequester carbon from the atmosphere. Our list represents “no regrets” initiatives, solutions that should be implemented whether or not the threat of climate change existed. Each has secondary and tertiary benefits to the economy, jobs, security, human health and the freedom of humanity at a global scale. These are solutions that improve lives, protect the environment, and mitigate climate change.

Central to the success of this project will be the quality and credibility of the research we present. Every fact and figure in *Drawdown* will have multiple citations and references. Project Drawdown is not authored; it is gathered, vetted, orchestrated and coalesced. Working with hundreds of scholars, students and organizations, this project represents the collaborative input of a coalition of researchers, professionals, and future changemakers. We are truly a global Coalition working on the most challenging global issue of our time.

THE DRAWDOWN FELLOWSHIP PROGRAM

The Drawdown Fellowship Program is designed to foster the development of a new generation of leaders working on pragmatic solutions to our climate crisis. These students, scientists, entrepreneurs, and storytellers will learn how to describe a realistic future in which the world achieves drawdown.

We offer a small number of competitive, ten-week fellowships to exceptional graduate students, postgraduates, and young scholars and professionals from around the world. Fellows will work with Project Drawdown's research team to develop realistic, solution-specific models, technical reports, and policy memos projecting the financial and climate impacts of 'state-of-the-shelf' solutions deployed at scale over the next thirty years.

During the course of their fellowship, fellows are expected to work on 1-5 solutions from our vetted list of technologies and social practices. By the end of their term, they must submit a Descriptive and Technical Report for each solution they take on. Fellows are also asked to identify and describe one 'Coming Attraction'—an upcoming solution with great potential to impact carbon emissions in the future.

Here are some of the 100 solutions on our list:

- Geothermal
- Electric Vehicles
- Pyrolysis
- Low-Flow Hydro
- Clean Cookstoves
- LED lighting
- Solar Photovoltaic
- Micro-grids
- Wind Turbines
- Whiteroofs
- Reducing Food Waste
- Energy Storage
- Girls Education
- Telepresence
- Concentrated Solar
- Peak Demand Management
- Waste-to-Energy
- Wave and Tidal Energy
- Bike Sharing
- Afforestation
- Greenroofs
- Biochar
- High Speed Rail
- Biological Agriculture
- Pasture Cropping
- District Heating

Reports produced by our fellows will be used in our publications, models, and interactive tools, with full attribution given to their contribution. Fellows will be invited to present their findings, and the larger findings of Project Drawdown, to our Coalition of global climate leaders, establishing themselves as climate solutions experts.

TECHNICAL DETAILS

Fellowship type

Junior Fellows: Junior fellowships are available to current or recent graduates and doctoral students engaged in a research or professional-based discipline. Junior Fellows are expected to produce Descriptive and Technical Reports for 1-2 solutions over the course of their 3-month fellowship.

Qualifications sought

- Current masters students, or recent postgraduates
- 3+ years of experience in renewable energy, energy efficiency, bio-sequestration, agriculture, international development, sharing economy, or related field
- Strong research, analysis and writing skills; experience with research and preparing clear, compelling, and high quality reports and presentations

Research Fellows: Research fellowships are available to young scholars and professionals working on climate change mitigation solutions. Research Fellows are expected to produce Descriptive and Technical Reports on 3-5 solutions over the course of their fellowship.

Qualifications sought

- Master's degree required, *PhD or equivalent work experience preferred.*
- 5+ years of experience in renewable energy, energy efficiency, bio-sequestration, agriculture, international development, sharing economy, or related field
- Experience in quantitative analysis, data modeling, econometrics highly desired
- Strong research, analysis and writing skills; experience with research and preparing clear, compelling, and high quality reports and presentations
- Project management skills, capable of meeting deadlines and working with large groups of people

Timeline

The first round of fellowships will run from January 10th – 30th April 2015, with all materials submitted no later than May 15th, 2015. Specific deadlines for each fellow will be developed at the beginning of their fellowship. Fellows will be asked to submit regular updates on progress, meeting all deadlines set by the Project Drawdown Research Team.

Scope of work

Each fellow will work with the Project Drawdown Research Team to outline individualized plans according to the number of solutions undertaken. Each solution requires: 1) Descriptive Report (1200-1500 words); 2) Technical Report (4,000-5,000 words); 3) Solution-specific financial and climate models; and 4) Supplemental information (depending upon solution).

How Do I Apply?

Please complete our online application form at www.drawdown.org/drawdown-fellows/application. All candidates should be sure to upload their most recent resume or CV, a list of three references, and two recent writing samples (see below for details). We will also consider letters of support from supervisors or institutions, if applicable.

Deadlines

Round 1 - 11/30/2014

Round 2 - 01/10/2015 (All junior fellowships applications must be submitted by this date)

Round 3 - 02/15/2015 (All research fellowship applications must be submitted by this date)

Writing Samples

All applicants should submit two writing samples, including:

- 1) A 500-1000 word an argumentative essay or op-ed on a subject of your choice that demonstrates an ability to make a focused argument in a clear, convincing, and accessible way. This writing sample is evaluated for evidence of critical thinking and general writing skills.
- 2) A research paper of up to approximately 10 pages. This does not need to have been published, but should demonstrate an ability to research and analyze a subject in more depth. It is recommended, but not required, that the topic of the research paper be relevant to the Project Drawdown's mission. Papers utilizing quantitative and qualitative analysis of climate solutions are particularly encouraged.

For more information contact us at fellows@drawdown.org, or check out our website at www.drawdown.org