

# Pushing the boundaries

## 3D Pioneers Challenge Formalities 2018

**RAPID.TECH**  
**FABCON 3.D**  
International Trade Show + Conference for Additive Manufacturing

Freistaat Thüringen  Ministerium für Wirtschaft, Wissenschaft und Digitale Gesellschaft



# 3D Pioneers Challenge Pushing Boundaries 2018

Apply now to take part in the international competition for **additive manufacturing technologies!**

Already for the third time the unique **3D Pioneers Challenge** covers a range of verticals and is aimed at designers who are breaking new ground in the field of 3D printing, taking into account the complete value-added system of additive technologies and who understand the key trends in the industry.

The Challenge seeks to uncover specialists from around the world who are thinking outside the box and - **pushing boundaries.**

3D Printing supports a range of new technologies and visions. Combining several different manufacturing methods creates innovation. We are standing at the edge of a new digital era of speed, fusion of human and environment, Industrial Internet Consortium and smart factories up to artificial intelligence. The opportunities seem to be unlimited – already today in our everyday life robotic is as imaginable as fashion that reacts towards its environment. Additive manufacturing technologies give the chance to go forward future and help visions to take shape.

The competition will focus on the following verticals:

**Design**  
**Digital**  
**Architecture**  
**Material**  
**FashionTech**  
**MedTech**  
**Mobility**

## Entrants

The competition is open to **Students** and **Young Professionals** (companies less than three years experience) and **Professionals** (that have been in the market for more than three years and private limited companies, independent of their date of foundation) – working in design or technical fields, as well as the automotive, software engineering, research and medical sectors.

We welcome submissions from previously published projects to brand new ideas.

Group entries are also permitted.

## Award

The 3D Pioneers Challenge has a total of EUR **15.000** of prize money, kindly supported by the Ministry of Economics, Science and Digital Society Thüringen. Other prizes will be as well awarded across the verticals.

The finalists' submissions will be manufactured by one of our partners (unless they have not been manufactured already) and will be exhibited at Rapid.Tech + FabCon 3.D in Erfurt (5th-7th June 2018). The entries of the winners will then be taken on a **roadshow** on international events.

All finalists will be invited to the 3D Pioneers Challenge award ceremony, which will take place as part of a **gala evening** in Erfurt on 6th June 2018. We would like to have as many finalists as possible to join us at the ceremony. Participants who reach the final round will therefore be informed in advance.

# Assessment criteria

The main judging criterion will be how the project deals with current issues and medium- to long-term trends affecting the sector. 3DPC focuses on interdisciplinary works.

The selected submissions will be presented as **3DPC Finalists** at the trade show Rapid.Tech + FabCon 3.D in Erfurt.

All submissions will be voted in a non-public, multi-stage selection process. At the pre-jurypanel the jury is taking into consideration the short explanatory film and images with descriptions and justifications of the unique features of the design to select the finalists. The final jurypanel decides upon the winners regarding the exhibits at the exhibition and all information on site. Always based on the following criteria:

## Implementation

- Manufactured using additive manufacturing processes
- Design appropriate for the material
- Ecological aspects
- Digital value-added systems

## Conception, design

- Conceptual quality (content, novelty, degree of innovation, product definition)
- Design quality (originality, consistent and aesthetic design principle, ergonomics)

## Relevance

- Relevance to society (social aspects, purpose)
- Sustainability of the idea/project
- How the project engages with state-of-the-art technology/knowledge

The jury will also take into account whether each project was submitted by students, young professionals or professionals.

# Expert jury

The international, high-class jury is made up of experts who work in this year's verticals.

## Jury members 2018 (upon others):

Diana Drewes, Haute Innovation

Sven Eberwein, Tesla Design Team

Barbara Friedrich, Design Consulting & Publishing

Eyal Gever, Artist

Sebastian Herkner, Studio Sebastian Herkner

Julia Körner, JK Design GmbH

Achim Menges, ICD Stuttgart

Silvia Olp, aed e.V., aed Society for Advancement of Architecture, Engineering, Design

Dirk Simon, BASF3D Print Solutions -B3DPS

Joachim Stumpp, raumPROBE

Andreas Velten, Institute for anaplastology

Christoph Völcker, VOXELWORLD

Wolf Udo Wagner, Studio Wagner:Design, Deutscher Designer Club DDC

Anouk Wipprecht, FashionTech Designer

The independent jury will decide how the prize money and prizes will be apportioned.

# Entry fees and payment conditions

Entry is free of charge for **Students**, for **Young Professionals** who have completed their studies within the past three years, and for **exhibitors** at the current year's Rapid.Tech + FabCon 3.D.

**Professionals** (Companies that have been in the market for more than three years / and private limited companies, independent of their date of foundation) will be charged an entry fee of EUR 250. This does not include VAT.

No other fees will be charged.

# Timesheet

October 2017  
15th March 2018  
5th -7th June 2018

Call for entries open  
Submission deadline  
Exhibition of the finalists' projects at  
Rapid.Tech + FabCon 3.D, Messe Erfurt  
Gala evening with award ceremony  
Roadshow on international trade shows

6th June 2017  
following

## Registration

The registration is official by handing in the submission in time.  
The deadline for applications is **15th of March 2018**.

Please read the conditions of participation/general terms and conditions carefully.

No more than three entries may be submitted per person.  
Any design that has been published previously must not be older than three years.  
3DPC entries of 2016 and 2017 may not be submitted again.  
Please upload for each entry all needed files and one complete digital online-form.

Therefore please create an account at [www.3dpc.io](http://www.3dpc.io) (Sign up). There you may submit your project, upload pictures, movies, describing texts. The files will be saved in your account and you are able to update the content till the submission deadline (Login). After the deadline it is closed and not possible anymore.

In all further correspondence please mention the name of the project as well as your username.

Incomplete submissions will be excluded from the competition.

## Submission

Each submission must contain the following:

- Completely digitally filled out registration form
- Complete project description and short description in German/English

via upload

- Proof of studies, confirmation of enrolment
- One significant high quality photo/rendering (.jpg 1748 x 2480 px, landscape format, uniform background)
- Producibile 3D data file for the submitted design (.stl /.iges /.step)
- A short explanatory movie (max. 60 seconds, if comments only as writing, English)

in two formats :

- Full HD 3:2 (for display on Ipads at the exhibition)
- Full HD 16:9 (for display on large screen at the gala event)

Please add to the name of each uploaded file the name of the project.

If there is an existing model of the project that may be provided for the final exhibition you may send it directly to Messe Erfurt (date will be communicated in time).

In case of being part of the final exhibition and there is no existing model, a partner of 3DPC will produce a model (free of charge for the participant).

# Organisers

**Messe Erfurt GmbH**  
**Rapid.Tech + FabCon 3.D**  
[www.rapidtech-fabcon.de](http://www.rapidtech-fabcon.de)

**d.sign21**  
[www.d-sign21.de](http://www.d-sign21.de)

**3D Pioneers Challenge**  
[www.3dpc.io](http://www.3dpc.io)

**DDC, Deutscher Designer Club.**  
[www.ddc.de](http://www.ddc.de)

In collaboration with Messe Erfurt, Rapid.Tech + FabCon 3.D. d.sign21 organizes the 3D Pioneers Challenge.

**Rapid.Tech + FabCon 3.D** is one of Europe's most important events in the field of Additive Manufacturing. It has been providing information about the status and development of Rapid Prototyping, the direct production of end products by using Additive Manufacturing as well as the way into series production. With more than 100 user-oriented lectures in the specialist conference and the 3D Printing Conference as well as more than 200 exhibitors on the show floor Rapid.Tech + FabCon 3.D is a high-class industry get-together which is unique in this form. For the 15th anniversary from 5 to 7 June 2018 more than 5,000 international trade visitors and conference participants are expected in Erfurt.

d.sign21 is a design and consultancy company with a wealth of experience in developing and organising design challenges. Its expertise in design, additive technologies and the global network supports the 3D Pioneers Challenge.

3DPC is the international competition for additive manufacturing and their value added chain as well as gateway for all enthusiasts who deal with new technologies using 3D printing to push their projects.

The 3D Pioneers Challenge is under the patronage of the **DDC, Deutscher Designer Club.**

# Partners

Ministry for Economy, Science and Digital Society Thüringen

[www.thueringen.de/th6/tmwwdg/](http://www.thueringen.de/th6/tmwwdg/)

3D Hubs  
3Druck.com  
3D Printing Business Directory  
aed e.V.  
ALL3DP  
avedition  
Autodesk  
BASF New Business GmbH  
botspot  
canto  
DDC Deutscher Designer Club  
designreport  
designspotter  
Fabb-it  
FIT AG  
haute innovation  
MakerBot  
raumPROBE  
Stratasys  
Verband 3DDruck e.V.

[www.3dhubs.com](http://www.3dhubs.com)  
[www.3druck.com](http://www.3druck.com)  
[www.3dprintingbusiness.directory](http://www.3dprintingbusiness.directory)  
[www.aed-stuttgart.de](http://www.aed-stuttgart.de)  
[www.all3dp.com](http://www.all3dp.com)  
[www.avedition.de](http://www.avedition.de)  
[www.autodesk.com](http://www.autodesk.com)  
[www.basf-new-business.com](http://www.basf-new-business.com)  
[www.botspot.de](http://www.botspot.de)  
[www.canto-web.de](http://www.canto-web.de)  
[www.ddc.de](http://www.ddc.de)  
[www.designreport.de](http://www.designreport.de)  
[www.designspotter.com](http://www.designspotter.com)  
[www.fabb-it.com](http://www.fabb-it.com)  
[www.pro-fit.de](http://www.pro-fit.de)  
[www.haute-innovation.com](http://www.haute-innovation.com)  
[www.makerbot.com](http://www.makerbot.com)  
[www.raumprobe.de](http://www.raumprobe.de)  
[www.stratasys.com](http://www.stratasys.com)  
[www.verband3ddruck.berlin](http://www.verband3ddruck.berlin)

# Liability Insurance

The participant bears all costs that are associated with processing the submitted designs - sending and return. The organiser disclaims liability.

# General legal conditions

Entrants are responsible for ensuring the rights to their designs are protected and ensuring that the rights of third parties are not breached by their participation in the competition and the publication of the results of the competition in printed documents, exhibitions and press releases. They will provide all required documentation free of charge.

The decision of the jury is final and there is no right of appeal. For further information, please refer to the general terms and conditions.

# General terms and conditions

## Conditions of participation

## Competition 3D Pioneers Challenge

### **§1 General**

#### **§ 1.1**

The general terms and conditions apply to competitions organised by d.sign21. (d.sign21 is the label for Völcker & Völcker GbR, represented by the Managing Director Dipl.-Ing. (FH), M.A. Simone Völcker, and Managing Director Dipl.-Ing. (FH), M.A. Christoph Völcker, Fronhof 1, 70378 Stuttgart, Germany. Email: info(at)d-sign21.de. Telephone: +49 711 477 2748-0.) d.sign21 is hereinafter referred to as the "Organiser".

Messe Erfurt GmbH, represented by the CEO Michael Kynast, is the exclusive licensee for the 3D Pioneers Challenge and hosts the competition at the Rapid.Tech + FabCon 3.D. (Messe Erfurt GmbH, Gothaer Straße 34, 99094 Erfurt, Germany, Email info(at)messe-erfurt.de. Telephone: + 49 361 400-0) Messe Erfurt GmbH is hereinafter referred to as the "Promoter".

#### **§1.2**

Participation is subject to the present terms and conditions. By participating in the 3D Pioneers Challenge competition, participants recognize the conditions of participation as binding.

#### **§1.3**

Participation takes place exclusively online on the internet. The formalities are available for download from the website [www.3dpc.io](http://www.3dpc.io).

### **§2 Competition**

The 3D Pioneers Challenge seeks to discover specialists from around the world who are thinking outside the box and pushing boundaries. The final decision is based in large part on a consideration of current issues as well as medium- and long-term trends that link new technologies and provide practical applications, integrate them into existing processes, taking into account the complete value-added system or create forward-looking concepts.

The focus is on "verticals", that means on all major disciplines that use 3D printing and that are leading the way in additive manufacturing. Prize money and various prizes are awarded annually. For a more detailed description of the disciplines, see the registration documents and formalities.

### **§3 Entrants**

#### **§3.1**

Students in the design, architecture, fashion, medical, automotive, research, construction, engineering, digital media and technology fields, as well as professional firms, are invited. Anything can be submitted, from projects that have already been publicised to brand new ideas.

Group entries are also permitted.

Students and Young Professionals are participants that are less than 3 years away from their studies or education. Professionals are more than three years on the market or private limited companies independent of their date of foundation. (corresponding participation fees see §7)

#### **§3.2**

For cooperative and team submissions, a main contact person must be named as a primary contact within the application form for further correspondence.

### **§4 Jury**

#### **§4.1**

The independent jury is assembled annually and consists of experts in the respective verticals.

The non-public, multi-stage selection process takes place after the submission deadline as well as finally during the promoter's exhibition event.

Any member of the jury directly involved with a submitted entry will not be allowed to vote for this submission.

#### **§4.2**

The evaluation is carried out according to the following criteria:

##### Implementation

- Manufactured using additive manufacturing processes
- Design appropriate for the material
- Ecological aspects
- Digital value-added systems

##### Conception, design

- Conceptual quality (content, novelty, degree of innovation, product definition)
- Design quality (originality, consistent and aesthetic design principle, ergonomics)

##### Relevance

- Social relevance (meaning, social aspects)
- Sustainability of the idea/project
- How the project engages with state-of-the-art technology/knowledge

The evaluation criteria may be adjusted annually – they should be consulted in the respective application documents.

#### **§4.3**

The jury will decide how to weight the criteria in particular.

The independent jury alone will decide only in the final jurypanel which project will receive which prize, in which category. The decision of the jury is final and there is no right of appeal.

### **§5 Award**

#### **§5.1**

The best submissions will be selected to be presented at the special exhibition as Finalists at the Rapid.Tech + FabCon 3.D trade show.

#### **§5.2**

Submissions that have not been already produced may be produced for the exhibition by the partners of the competition free of charge for the entrant. After that and the roadshow (§9) the object may be returned to the participants free of charge, against a shipping fee. Participants must state their interest in this option at the time of registration.

### §5.3

The best submissions will be awarded with prize-money and special prizes. The amount and type of the prizes is published annually in the tender documents and/or on the homepage and/or facebook.

### §5.4

All Finalists will be invited to the 3D Pioneers Challenge award ceremony, which will take place as part of a gala evening. Finalists are invited and encouraged to attend the award ceremony at their own expense. The organiser directly notifies the finalists of their participation in the final exhibition, by means of an announcement which includes an invitation to the award ceremony and a request to register.

### §5.5

All submissions that are presented in the final exhibition will be part in the roadshow that will take place after the fair. (See § 9)

## **§6 Registration and Conclusion of the Agreement**

### §6.1

Registration takes place and the contractual agreement is concluded with the timely submission of materials. For each submission, this includes a complete filled registration form including all relevant documents and information. See the application documents, formalities for further details.

### §6.2

A submission may not be older than 3 years at the time of the submission deadline. 3DPC entries of former years may not be submitted again.

### §6.3

Each participant may enter a maximum of 3 submissions. Each submissions requires a registration form.

### §6.4

Printable, producible data for the respective additive processes are expressly required for participation.

### §6.5

For the registration the participant creates an account at [www.3dpc.io](http://www.3dpc.io). There he may submit up to three projects, upload pictures, movies, describing texts. The files will be saved in the account and the participant is able to update the content till the submission deadline. After the deadline it is not possible anymore. Applications that require a registration fee (see §7) are only valid with receipt of the registration fee. The submission deadline is the final deadline. Late registrations will not be allowed. There is no right of appeal.

### §6.6

The approved languages are German and English.

### §6.7

The participant is required to declare which group of participants he or she belongs to by submitting appropriate evidence. (Student / Young Professionals / Professionals / Rapid.Tech + FabCon 3.D exhibitors during the award year). Proofs must be handed in by upload in the content of the personal account.

### §6.8

If third parties show interest in contacting, the organiser will act as agent and will lead the contact of the interested third party to the entrant. Only for this purpose all data will be archived in a database unlimited and will not be handed to other third parties. For publications, presentations or similar use, the organisator may use pictures and descriptions unlimited by linking to the participant.

### §6.9

The entrants gives its consent to receive newsletters with the registration at [www.3dpc.io](http://www.3dpc.io). This complies to the German Data protection laws. You may stop the newsletter by sending an email with : "End newsletter".

### §6.10

With the registration at [www.3dpc.io](http://www.3dpc.io) the participant accepts the General Business Terms and conditions of participation.

## **§7 Participation Fees and Payment Conditions**

### §7.1

Students and Young Professionals whose studies or training ended less than 3 years ago, as well as Rapid.Tech + FabCon 3.D exhibitors for the current year, pay no fees. Professionals (more tha 3 years on the market) and private limited companies (independent of their date of foundation) pay the participation fees in accordance with the application documents plus the current statutory value-added tax. The participation fees may vary for each year and will be published in the current registration documents/ formalities.

### §7.2

After the submission deadline the entrant receives the invoice. The participation fees are to be transferred to the account specified in the invoice within 10 days of receipt of the invoice, without deduction. This is a condition for participation in the competition. The participant is excluded from participation if the payment is made later.

### §7.3

Registration fees are refundable only if the participant's cancellation is received in time within 14 days in written form. (see §13)

### §7.4

The participant bears all costs that are associated with processing the submitted designs (modell) - sending and return. The organisator disclaims liability.

### §7.5

No further costs arise for the participants.

## **§8 Public Relations**

### **§8.1**

The exhibition of 3D Pioneers Challenge finalists for the current year happens at Rapid.Tech + FabCon3.D for the respective year.

### **§8.2**

The details and results of the competition are presented and published as part of Rapid.Tech + FabCon3.D for the current year and by the organiser via press materials (digital and print). Furthermore, the organiser may use and publish the information and results of the competition for other printed media and media in an unlimited manner. This applies, for example, to publications in the book trade. Press materials will be made available to cooperation partners, participants and the press. Copyright is held by the organiser, and reproduction is permitted only by arrangement.

## **§9 Roadshow**

### **§9.1**

Several roadshow stops will be organised where the exhibits of the finalists will be presented on international events. The exhibit or an adequate alternative has to be in charge of the organiser for around one year. The organiser informs about the planned roadshow details and/or announces them on facebook.

### **§9.2**

Generally the finalists may ask for their exhibit any time for own purposes in agreement. Please inform 3DPC in time regarding organisation and transportation time as well as to avoid overlapping of exhibitions. It will be decided when the exhibit needs to be back at 3DPC individually. Transportation costs are taken by the participant.

### **§9.3**

The selection of the exhibits will be decided in cooperation with the organisation/fair, where 3DPC may present. The aim is to make it equal for all winners and special mention. As there will be contracts with the hosts, they also may select. There is no right neither that the projects will be presented nor that you may attend the events in person.

### **§9.4**

The exhibits are securely and insured stored in the office of d.sign21, the headquarter of 3DPC from where the roadshow will be coordinated. The exhibits are insured whilst the roadshow.

If an object needs to be sent home in between the roadshow and back to the headquarter, the insurance of the sending depends on the selected way of sending. As described in the general terms and conditions, which was accepted with the participation of the challenge, the costs for logistics and insurance are taken by the participant.

The objects will be packed in the material given by the owner (if available). Therefore the designer is responsible for the security of the packaging. A documentation with pictures about how to repack will be helpful and the organiser pleases the participant to hand in such a documentation. Necessary special tools for packing and protecting have to be provided by the participant.

Whilst the exhibition the objects will be under surveillance of staff if available.

## **§10 Liability / Insurance**

The participant bears all costs that are associated with processing the submitted designs - sending and return. The organiser disclaims liability.

## **§11 General Legal Conditions**

### **§11.1**

Participants are responsible for ensuring the rights to their designs are protected and ensuring that the rights of third parties are not breached by their participation in the competition and the publication of the results of the competition in printed documents, exhibitions and press releases. They will provide all required documentation free of charge.

The organiser, promoter, cooperation partners and jurors for the competition are exempted by the participant from all claims, demands and rights of third parties in the case of an alleged infringement. Any damages that arise will be borne by the participant.

### **§11.2**

The entrant owns the copy right of its submissions.

The participant grants the organiser unlimited usage, disposition, patent rights and archiving (see § 6.8, §8.2), within the framework of the competition and its public relations, for the data, texts, films and images provided in the submission.

### **§11.3**

In addition, cooperation partners can inform the organiser of their interest to enter into further partnerships with the participants. For this purpose, the rights to the submission remain with the organiser in their capacity as coordinator for 3 months after the award ceremony. Consent regarding implementation is the responsibility of the participant. By registering, participants agree to this. By agreeing to cooperate on the 3D Pioneers Challenge, cooperation partners have given their consent.

### **§11.4**

Submissions that are already present on the market remain unaffected. Rights thereto are reserved by the participants and their partners. This must be indicated separately at the time of registration and be accompanied by appropriate evidence.

### **§11.5**

The winners may use the award indefinitely for their own communication purposes. The organiser will also show the prize-winning designs at further exhibitions to the extent that this fits conceptually with the respective presentations/events.

### **§11.6**

Should the rights of a third party be infringed, the promoter, organiser and jurors reserve the right to revoke the award.



## **§12 Reservations**

### **§12.1**

Provided that the promoter and organiser together have not secured the economic viability or other good reasons such as acts of God occur, the organiser reserves the right to cancel the competition.

### **§12.2**

This agreement remains valid if the actual competition is postponed. If the actual competition is cancelled, the contractual partners are freed from all obligations without any right to assert claims for reimbursement of costs or damages.

## **§13 Withdrawal**

The participant may withdraw from his/her registration within 14 days. The withdrawal must be declared in writing. Should payment already have been made by the participant to the organiser within the 14 days, it will be refunded to the participant in the event of a timely withdrawal. After 14 days, withdrawal of the participant and a refund of the associated fees are excluded.

## **§14 Confidentiality**

Participants, cooperation partners, jurors as well as the promoter and organiser agree to maintain confidentiality about the submissions during the processing and evaluation period. This applies to all exhibited, winning and featured designs until the day of the opening of the exhibition in the current year.

## **§15 Place of Performance and Place of Jurisdiction**

### **§15.1**

The exclusive place of performance and place of jurisdiction for the agreement is the business headquarters of the organiser; this also applies if the participant resides abroad.

### **§15.2**

As soon as the promoter or organiser is made aware by legal judgement or court decision that third-party rights were violated by the submission, the participant may be excluded or the award revoked.

### **§15.3**

Any claims must be made in writing.

## **§16 Severability Clause**

Should any individual provisions of this agreement be or become ineffective, the effectiveness of the contract as a whole shall not be affected thereby. In such a case, a provision which comes as close as possible to the content of the original provision shall take the place of the non-included or ineffective provision.

## **§17 Miscellaneous**

By participating in the competition, participants confirm their acceptance of the general legal conditions described above and the information regarding liability and insurance. With the registration for the competition, the participants make a legally binding declaration to adhere to the terms of the competition. The jury's decision is final. There is no right of appeal. Subject to change. The invitations to the gala evening will be given in order of priority to the winners and finalists and then by registration order. Places are limited.

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