

**Applied research in the field of the new generation of personal protective equipment for the demands of joint rescue service**

Applied research will be aimed to improvement of efficiency and reliability of personal protective equipment which is mainly used by the organs of joint rescue service. Increased protection level of the most sensitive human organs will be ensured by two factors. Firstly the new constructional solutions will reflect imperfections and limitations of existing protective equipments and secondly the most advanced materials and production technologies will be employed to achieve maximal user comfort.

Code	VI20172020052
State providing funder	Ministry of the Interior of The Czech republic <a href="https://www.mvcr.cz/mvcren/default.aspx">https://www.mvcr.cz/mvcren/default.aspx</a>
Programme	Security Research Program of the Czech Republic
Total eligible costs	35 140 000 CZK
Total project subsidy	34 145 000 CZK
Subsidy FME TUL	31 376 000 CZK
TUL internal project number	16298
Contractor	TUL, Faculty of Mechanical Engineering
Project participant	Clean-air, s.r.o. <a href="https://www.clean-air.cz/">https://www.clean-air.cz/</a>
Principal investigator TUL	Ing. Martin Seidl, Ph.D.
Department	Department of Engineering Technology <a href="http://www.fs.tul.cz/en/technology/polymers-and-composites/research-and-innovations/">http://www.fs.tul.cz/en/technology/polymers-and-composites/research-and-innovations/</a>
Period	2017-2019

<https://www.rvvi.cz/cep?s=jednoduche-vyhledavani&ss=detail&n=0&h=VI20172020052>

<b>Costs (year) TUL</b>	2017	2018	2019*	2020*	Total
Non-investment (CZK)	4 795 000	4 799 000	4 846 000	4 622 000	19 062 000
Investment (CZK)	7 090 000	2 185 000	2 980 000	0	12 255 000
<b>Total (CZK) TUL</b>	<b>11 885 000</b>	<b>6 984 000</b>	<b>7 826 000</b>	<b>4 622 000</b>	<b>31 317 000</b>

**Project results EN**

2018	Article	<a href="https://doi.org/10.2478/242101800005335">RIV/46747885:24210/18:00005335</a>
2018	Article	<a href="https://doi.org/10.2478/242101800005705">RIV/46747885:24210/18:00005705</a>
2018	Article	<a href="https://doi.org/10.2478/246201800005705">RIV/46747885:24620/18:00005705</a>

\* Expected costs